Machine Learning

ML Runtimes Pre-installed Packages

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Contents

Pre-Installed Packages in ML Runtimes

Cloudera Data Science Workbench ships with several engine images that include Python kernels and frequently used libraries.

ML Runtimes 2021.12

This section lists the Python, R, and Scala libraries that ship with ML Runtimes 2021.12.

Note: Nvidia GPU Edition comes with CUDA 11.4.1 preinstalled.

Python 3.9 Libraries for Workbench

This section lists the packages in Python 3.9 Workbench Runtimes that ship with ML Runtimes 2021.12.

Table 1: Packages in Python 3.9.7 Workbench Runtimes - Standard

Library	Version
python	3.9.6
pip	21.1.3
backcall	0.2.0
bitarray	2.1.0
certifi	2021.5.30
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
idna	3.2
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0

Library	Version
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.26.0
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Table 2: Packages in Python 3.9.7 Workbench Runtimes - Nvidia GPU Edition

Library	Version
python	3.9.6
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
backcall	0.2.0
bitarray	2.1.0
certifi	2021.5.30
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
idna	3.2
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1

Library	Version
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.26.0
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Python 3.8 Libraries for Workbench

This section lists the packages in Python 3.8 Workbench Runtimes that ship with ML Runtimes 2021.12.

Table 3: Packages in Python 3.8.6 Workbench Runtimes - Standard

Library	Version
python	3.8.6
pip	21.1.3
backcall	0.2.0
bitarray	2.1.0
certifi	2021.5.30
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
idna	3.2
impyla	0.17.0
ipykernel	5.3.4

Library	Version
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.26.0
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Table 4: Packages in Python 3.8.6 Workbench Runtimes - Nvidia GPU Edition

Library	Version
python	3.8.6
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
backcall	0.2.0
bitarray	2.1.0
certifi	2021.5.30

Library	Version
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
idna	3.2
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.26.0
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Table 5: Packages in Python 3.8.6 Workbench Runtimes - RAPIDS

Library	Version
python	3.8.6

Library	Version
pip	21.1.3
_libgcc_mutex	0.1
_openmp_mutex	4.5
abseil-cpp	20210324.2
aiohttp	3.8.1
aiosignal	1.2.0
anyio	3.4.0
appdirs	1.4.4
argon2-cffi	21.1.0
arrow-cpp	5.0.0
arrow-cpp-proc	3.0.0
async-timeout	4.0.1
async_generator	1.10
attrs	21.2.0
aws-c-auth	0.6.7
aws-c-cal	0.5.12
aws-c-common	0.6.17
aws-c-compression	0.2.14
aws-c-event-stream	0.2.7
aws-c-http	0.6.10
aws-c-io	0.10.13
aws-c-mqtt	0.7.9
aws-c-s3	0.1.27
aws-c-sdkutils	0.1.1
aws-checksums	0.1.12
aws-crt-cpp	0.17.8
aws-sdk-cpp	1.9.145
backcall	0.2.0
backports	1.0
backports.functools_lru_cache	1.6.4
bleach	4.1.0
blosc	1.21.0
bokeh	2.4.0
boost	1.74.0
boost-cpp	1.74.0
brotli	1.0.9
brotli-bin	1.0.9
brotlipy	0.7.0
brunsli	0.1

Library	Version
bzip2	1.0.8
c-ares	1.18.1
c-blosc2	2.0.4
ca-certificates	2021.10.8
cachetools	4.2.4
cairo	1.16.0
cdsw	1.1.0
certifi	2021.5.30
cffi	1.15.0
cfitsio	3.470
charls	2.2.0
charset-normalizer	2.0.6
click	8.0.3
click-plugins	1.1.1
cligj	0.7.2
cloudpickle	2.0.0
colorama	0.4.4
colorcet	3.0.0
cryptography	36.0.1
cucim	21.12.00
cudatoolkit	11.0.221
cudf	21.12.02
cudf_kafka	21.12.02
cudnn	8.2.1.32
cugraph	21.12.00
cuml	21.12.00
cupy	9.6.0
curl	7.80.0
cusignal	21.12.00
cuspatial	21.12.00
custreamz	21.12.02
cuxfilter	21.12.00
cycler	0.11.0
cyrus-sasl	2.1.27
cytoolz	0.11.2
dask	2021.11.2
dask-core	2021.11.2
dask-cuda	21.12.00
dask-cudf	21.12.02

Library	Version
datashader	0.11.1
datashape	0.5.4
debugpy	1.5.1
decorator	5.1.0
defusedxml	0.7.1
distributed	2021.11.2
dlpack	0.5
entrypoints	0.3
expat	2.4.1
faiss-proc	1.0.0
fastavro	1.4.7
fastrlock	0.8
fiona	1.8.20
font-ttf-dejavu-sans-mono	2.37
font-ttf-inconsolata	3.000
font-ttf-source-code-pro	2.038
font-ttf-ubuntu	0.83
fontconfig	2.13.1
fonts-conda-ecosystem	1
fonts-conda-forge	1
fonttools	4.28.4
freetype	2.10.4
freexl	1.0.6
frozenlist	1.2.0
fsspec	2021.11.1
gdal	3.3.2
geopandas	0.9.0
geopandas-base	0.9.0
geos	3.9.1
geotiff	1.7.0
gettext	0.19.8.1
gflags	2.2.2
giflib	5.2.1
git	2.34.1
glog	0.5.0
gpuci-tools	0.3.1
grpc-cpp	1.41.1
hdf4	4.2.15
hdf5	1.12.1

Library	Version
heapdict	1.0.1
icu	68.2
idna	3.2
imagecodecs	2021.8.26
imageio	2.13.3
importlib-metadata	4.8.3
importlib_metadata	4.8.3
importlib_resources	5.4.0
ipykernel	6.6.0
ipython	7.30.1
ipython_genutils	0.2.0
ipywidgets	7.6.5
jbig	2.1
jedi	0.18.1
jinja2	3.0.3
joblib	1.1.0
jpeg	9d
json-c	0.15
jsonschema	4.3.1
jupyter-server-proxy	3.2.0
jupyter_client	7.1.0
jupyter_core	4.9.1
jupyter_server	1.13.1
jupyterlab_pygments	0.1.2
jupyterlab_widgets	1.0.2
jxrlib	1.1
kealib	1.4.14
kiwisolver	1.3.2
krb5	1.19.2
lcms2	2.12
ld_impl_linux-64	2.36.1
lerc	3.0
libaec	1.0.6
libblas	3.9.0
libbrotlicommon	1.0.9
libbrotlidec	1.0.9
libbrotlienc	1.0.9
libcblas	3.9.0
libcucim	21.12.00

Library	Version
libcudf	21.12.02
libcudf_kafka	21.12.02
libcugraph	21.12.00
libcuml	21.12.00
libcumlprims	21.12.00
libcurl	7.80.0
libcusolver	11.3.2.107
libcuspatial	21.12.00
libdap4	3.20.6
libdeflate	1.8
libedit	3.1.20191231
libev	4.33
libevent	2.1.10
libfaiss	1.7.0
libffi	3.4.2
libgcc-ng	9.4.0
libgcrypt	1.9.4
libgdal	3.3.2
libgfortran-ng	11.2.0
libgfortran5	11.2.0
libglib	2.70.2
libgpg-error	1.42
libgsasl	1.10.0
libhwloc	2.3.0
libiconv	1.16
libkml	1.3.0
liblapack	3.9.0
libllvm11	11.1.0
libnetcdf	4.8.1
libnghttp2	1.43.0
libnsl	2.0.0
libntlm	1.4
libopenblas	0.3.18
libpng	1.6.37
libpq	13.5
libprotobuf	3.18.1
librdkafka	1.6.1
librmm	21.12.00
librttopo	1.1.0

Library	Version
libsodium	1.0.18
libspatialindex	1.9.3
libspatialite	5.0.1
libssh2	1.10.0
libstdcxx-ng	9.4.0
libthrift	0.15.0
libtiff	4.3.0
libutf8proc	2.7.0
libuuid	2.32.1
libuv	1.42.0
libwebp	1.2.1
libwebp-base	1.2.1
libxcb	1.13
libxgboost	1.5.0dev.rapidsai21.12
libxml2	2.9.12
libzip	1.8.0
libzlib	1.2.11
libzopfli	1.0.3
llvm-openmp	12.0.1
llvmlite	0.37.0
locket	0.2.0
lz4-c	1.9.3
mapclassify	2.4.3
markdown	3.3.6
markupsafe	2.0.1
matplotlib-base	3.5.1
matplotlib-inline	0.1.3
mistune	0.8.4
msgpack-python	1.0.3
multidict	5.2.0
multipledispatch	0.6.0
munch	2.5.0
munkres	1.1.4
nbclient	0.5.9
nbconvert	6.3.0
nbformat	5.1.3
nccl	2.11.4.1
ncurses	6.2
nest-asyncio	1.5.4

Library	Version
networkx	2.6.3
nodejs	14.17.4
notebook	6.4.6
nspr	4.32
nss	3.73
numba	0.54.1
numpy	1.20.3
nvtx	0.2.3
olefile	0.46
openjpeg	2.4.0
openssl	1.1.1l
orc	1.7.1
packaging	21.3
pandas	1.3.5
pandoc	2.16.2
pandocfilters	1.5.0
panel	0.12.4
param	1.12.0
parquet-cpp	1.5.1
parso	0.8.3
partd	1.2.0
pcre	8.45
pcre2	10.37
perl	5.32.1
pexpect	4.8.0
pickleshare	0.7.5
pillow	8.4.0
pip	21.3.1
pixman	0.40.0
pooch	1.5.2
poppler	21.09.0
poppler-data	0.4.11
postgresql	13.5
proj	8.1.0
prometheus_client	0.12.0
prompt-toolkit	3.0.24
protobuf	3.18.1
psutil	5.8.0
pthread-stubs	0.4

Library	Version
ptxcompiler	0.2.0
ptyprocess	0.7.0
py-xgboost	1.5.0dev.rapidsai21.12
py4j	0.10.9
pyarrow	5.0.0
pycparser	2.21
pyct	0.4.6
pyct-core	0.4.6
pydeck	0.5.0
pyee	8.1.0
pygments	2.10.0
pynvml	11.4.1
pyopenssl	21.0.0
pyparsing	3.0.6
pyppeteer	0.2.6
pyproj	3.1.0
pyrsistent	0.18.0
pysocks	1.7.1
python	3.8.12
python-confluent-kafka	1.6.0
python-dateutil	2.8.2
python_abi	3.8
pytz	2021.3
pyviz_comms	2.1.0
pywavelets	1.2.0
pyyaml	6.0
pyzmq	22.3.0
rapids	21.12.00
rapids-xgboost	21.12.00
re2	2021.11.01
readline	8.1
requests	2.26.0
rmm	21.12.00
rtree	0.9.7
s2n	1.3.0
scikit-image	0.18.1
scikit-learn	1.0.1
scipy	1.7.3
send2trash	1.8.0

Library	Version
setuptools	59.6.0
shapely	1.8.0
simpervisor	0.4
six	1.16.0
snappy	1.1.8
sniffio	1.2.0
sortedcontainers	2.4.0
spdlog	1.8.5
sqlite	3.37.0
streamz	0.6.3
tblib	1.7.0
terminado	0.12.1
testpath	0.5.0
threadpoolctl	3.0.0
tifffile	2021.11.2
tiledb	2.3.4
tk	8.6.11
toolz	0.11.2
tornado	6.1
tqdm	4.62.3
traitlets	5.1.1
treelite	2.1.0
treelite-runtime	2.1.0
typing-extensions	4.0.1
typing_extensions	4.0.1
tzcode	2021e
tzdata	2021e
ucx	1.11.2+gef2bbcf
ucx-proc	1.0.0
ucx-py	0.23.0
unicodedata2	13.0.0.post2
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.3
websockets	9.1
wheel	0.37.0
widgetsnbextension	3.5.2
xarray	0.20.2

Library	Version
xerces-c	3.2.3
xgboost	1.5.0dev.rapidsai21.12
xorg-kbproto	1.0.7
xorg-libice	1.0.10
xorg-libsm	1.2.3
xorg-libx11	1.7.2
xorg-libxau	1.0.9
xorg-libxdmcp	1.1.3
xorg-libxext	1.3.4
xorg-libxrender	0.9.10
xorg-renderproto	0.11.1
xorg-xextproto	7.3.0
xorg-xproto	7.0.31
xz	5.2.5
yaml	0.2.5
yarl	1.7.2
zeromq	4.3.4
zfp	0.5.5
zict	2.0.0
zipp	3.6.0
zlib	1.2.11
zstd	1.5.0

Python 3.7 Libraries for Workbench

This section lists the packages in Python 3.7 Workbench Runtimes that ship with ML Runtimes 2021.12.

Table 6: Packages in Python 3.7.11 Workbench Runtimes - Standard

Library	Version
python	3.7.11
pip	21.1.3
backcall	0.2.0
bitarray	2.1.0
certifi	2021.5.30
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
idna	3.2
impyla	0.17.0
ipykernel	5.3.4

Library	Version
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.26.0
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Table 7: Packages in Python 3.7.11 Workbench Runtimes - Nvidia GPU Edition

Library	Version
python	3.7.11
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
backcall	0.2.0
bitarray	2.1.0
certifi	2021.5.30

Library	Version
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
idna	3.2
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.26.0
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Table 8: Packages in Python 3.7.11 Workbench Runtimes - RAPIDS

Library	Version
python	3.7.11

Library	Version
pip	21.1.3
cuda	11.4.1-1
_libgcc_mutex	0.1
_openmp_mutex	4.5
abseil-cpp	20210324.2
aiohttp	3.8.1
aiosignal	1.2.0
anyio	3.4.0
appdirs	1.4.4
argcomplete	1.12.3
argon2-cffi	21.1.0
arrow-cpp	5.0.0
arrow-cpp-proc	3.0.0
async-timeout	4.0.1
async_generator	1.10
asynctest	0.13.0
attrs	21.2.0
aws-c-auth	0.6.7
aws-c-cal	0.5.12
aws-c-common	0.6.17
aws-c-compression	0.2.14
aws-c-event-stream	0.2.7
aws-c-http	0.6.10
aws-c-io	0.10.13
aws-c-mqtt	0.7.9
aws-c-s3	0.1.27
aws-c-sdkutils	0.1.1
aws-checksums	0.1.12
aws-crt-cpp	0.17.8
aws-sdk-cpp	1.9.145
backcall	0.2.0
backports	1.0
backports.functools_lru_cache	1.6.4
bleach	4.1.0
blosc	1.21.0
bokeh	2.4.0
boost	1.74.0
boost-cpp	1.74.0
brotli	1.0.9

Library	Version
brotli-bin	1.0.9
brotlipy	0.7.0
brunsli	0.1
bzip2	1.0.8
c-ares	1.18.1
c-blosc2	2.0.4
ca-certificates	2021.10.8
cachetools	4.2.4
cairo	1.16.0
cdsw	1.1.0
certifi	2021.5.30
cffi	1.15.0
cfitsio	3.470
charls	2.2.0
charset-normalizer	2.0.6
click	8.0.3
click-plugins	1.1.1
cligj	0.7.2
cloudpickle	2.0.0
colorama	0.4.4
colorcet	3.0.0
cryptography	36.0.1
cucim	21.12.00
cudatoolkit	11.0.221
cudf	21.12.02
cudf_kafka	21.12.02
cudnn	8.2.1.32
cugraph	21.12.00
cuml	21.12.00
cupy	9.6.0
curl	7.80.0
cusignal	21.12.00
cuspatial	21.12.00
custreamz	21.12.02
cuxfilter	21.12.00
cycler	0.11.0
cyrus-sasl	2.1.27
cytoolz	0.11.2
dask	2021.11.2

Library	Version
dask-core	2021.11.2
dask-cuda	21.12.00
dask-cudf	21.12.02
datashader	0.11.1
datashape	0.5.4
debugpy	1.5.1
decorator	5.1.0
defusedxml	0.7.1
distributed	2021.11.2
dlpack	0.5
entrypoints	0.3
expat	2.4.1
faiss-proc	1.0.0
fastavro	1.4.7
fastrlock	0.8
fiona	1.8.20
font-ttf-dejavu-sans-mono	2.37
font-ttf-inconsolata	3.000
font-ttf-source-code-pro	2.038
font-ttf-ubuntu	0.83
fontconfig	2.13.1
fonts-conda-ecosystem	1
fonts-conda-forge	1
fonttools	4.28.4
freetype	2.10.4
freexl	1.0.6
frozenlist	1.2.0
fsspec	2021.11.1
gdal	3.3.2
geopandas	0.9.0
geopandas-base	0.9.0
geos	3.9.1
geotiff	1.7.0
gettext	0.19.8.1
gflags	2.2.2
giflib	5.2.1
git	2.34.1
glog	0.5.0
gpuci-tools	0.3.1

Library	Version
grpc-cpp	1.41.1
hdf4	4.2.15
hdf5	1.12.1
heapdict	1.0.1
icu	68.2
idna	3.2
imagecodecs	2021.8.26
imageio	2.13.3
importlib-metadata	4.8.3
importlib_metadata	4.8.3
importlib_resources	5.4.0
ipykernel	6.6.0
ipython	7.30.1
ipython_genutils	0.2.0
ipywidgets	7.6.5
jbig	2.1
jedi	0.18.1
jinja2	3.0.3
joblib	1.1.0
jpeg	9d
json-c	0.15
jsonschema	4.3.1
jupyter-server-proxy	3.2.0
jupyter_client	7.1.0
jupyter_core	4.9.1
jupyter_server	1.13.1
jupyterlab_pygments	0.1.2
jupyterlab_widgets	1.0.2
jxrlib	1.1
kealib	1.4.14
kiwisolver	1.3.2
krb5	1.19.2
lcms2	2.12
ld_impl_linux-64	2.36.1
lerc	3.0
libaec	1.0.6
libblas	3.9.0
libbrotlicommon	1.0.9
libbrotlidec	1.0.9

Library	Version
libbrotlienc	1.0.9
libcblas	3.9.0
libcucim	21.12.00
libcudf	21.12.02
libcudf_kafka	21.12.02
libcugraph	21.12.00
libcuml	21.12.00
libcumlprims	21.12.00
libcurl	7.80.0
libcusolver	11.3.2.107
libcuspatial	21.12.00
libdap4	3.20.6
libdeflate	1.8
libedit	3.1.20191231
libev	4.33
libevent	2.1.10
libfaiss	1.7.0
libffi	3.4.2
libgcc-ng	9.4.0
libgcrypt	1.9.4
libgdal	3.3.2
libgfortran-ng	11.2.0
libgfortran5	11.2.0
libglib	2.70.2
libgpg-error	1.42
libgsasl	1.10.0
libhwloc	2.3.0
libiconv	1.16
libkml	1.3.0
liblapack	3.9.0
libllvm11	11.1.0
libnetcdf	4.8.1
libnghttp2	1.43.0
libnsl	2.0.0
libntlm	1.4
libopenblas	0.3.18
libpng	1.6.37
libpq	13.5
libprotobuf	3.18.1

Library	Version
librdkafka	1.6.1
librmm	21.12.00
librttopo	1.1.0
libsodium	1.0.18
libspatialindex	1.9.3
libspatialite	5.0.1
libssh2	1.10.0
libstdcxx-ng	9.4.0
libthrift	0.15.0
libtiff	4.3.0
libutf8proc	2.7.0
libuuid	2.32.1
libuv	1.42.0
libwebp	1.2.1
libwebp-base	1.2.1
libxcb	1.13
libxgboost	1.5.0dev.rapidsai21.12
libxml2	2.9.12
libzip	1.8.0
libzlib	1.2.11
libzopfli	1.0.3
llvm-openmp	12.0.1
llvmlite	0.37.0
locket	0.2.0
lz4-c	1.9.3
mapclassify	2.4.3
markdown	3.3.6
markupsafe	2.0.1
matplotlib-base	3.5.1
matplotlib-inline	0.1.3
mistune	0.8.4
msgpack-python	1.0.3
multidict	5.2.0
multipledispatch	0.6.0
munch	2.5.0
munkres	1.1.4
nbclient	0.5.9
nbconvert	6.3.0
nbformat	5.1.3

Library	Version
nccl	2.11.4.1
ncurses	6.2
nest-asyncio	1.5.4
networkx	2.6.3
nodejs	14.17.4
notebook	6.4.6
nspr	4.32
nss	3.73
numba	0.54.1
numpy	1.20.3
nvtx	0.2.3
olefile	0.46
openjpeg	2.4.0
openssl	1.1.1l
orc	1.7.1
packaging	21.3
pandas	1.3.5
pandoc	2.16.2
pandocfilters	1.5.0
panel	0.12.4
param	1.12.0
parquet-cpp	1.5.1
parso	0.8.3
partd	1.2.0
pcre	8.45
pcre2	10.37
perl	5.32.1
pexpect	4.8.0
pickle5	0.0.12
pickleshare	0.7.5
pillow	8.4.0
pip	21.3.1
pixman	0.40.0
pooch	1.5.2
poppler	21.09.0
poppler-data	0.4.11
postgresql	13.5
proj	8.1.0
prometheus_client	0.12.0

Library	Version
prompt-toolkit	3.0.24
protobuf	3.18.1
psutil	5.8.0
pthread-stubs	0.4
ptxcompiler	0.2.0
ptyprocess	0.7.0
py-xgboost	1.5.0dev.rapidsai21.12
py4j	0.10.9
pyarrow	5.0.0
pycparser	2.21
pyct	0.4.6
pyct-core	0.4.6
pydeck	0.5.0
pyee	8.1.0
pygments	2.10.0
pynvml	11.4.1
pyopenssl	21.0.0
pyparsing	3.0.6
pyppeteer	0.2.6
pyproj	3.1.0
pyrsistent	0.18.0
pysocks	1.7.1
python	3.7.12
python-confluent-kafka	1.6.0
python-dateutil	2.8.2
python_abi	3.7
pytz	2021.3
pyviz_comms	2.1.0
pywavelets	1.2.0
pyyaml	6.0
pyzmq	22.3.0
rapids	21.12.00
rapids-xgboost	21.12.00
re2	2021.11.01
readline	8.1
requests	2.26.0
rmm	21.12.00
rtree	0.9.7
s2n	1.3.0

Library	Version
scikit-image	0.18.1
scikit-learn	1.0.1
scipy	1.7.3
send2trash	1.8.0
setuptools	59.6.0
shapely	1.8.0
simpervisor	0.4
six	1.16.0
snappy	1.1.8
sniffio	1.2.0
sortedcontainers	2.4.0
spdlog	1.8.5
sqlite	3.37.0
streamz	0.6.3
tblib	1.7.0
terminado	0.12.1
testpath	0.5.0
threadpoolctl	3.0.0
tifffile	2021.11.2
tiledb	2.3.4
tk	8.6.11
toolz	0.11.2
tornado	6.1
tqdm	4.62.3
traitlets	5.1.1
treelite	2.1.0
treelite-runtime	2.1.0
typing-extensions	4.0.1
typing_extensions	4.0.1
tzcode	2021e
tzdata	2021e
ucx	1.11.2+gef2bbcf
ucx-proc	1.0.0
ucx-py	0.23.0
unicodedata2	13.0.0.post2
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.3

Library	Version
websockets	9.1
wheel	0.37.0
widgetsnbextension	3.5.2
xarray	0.20.2
xerces-c	3.2.3
xgboost	1.5.0dev.rapidsai21.12
xorg-kbproto	1.0.7
xorg-libice	1.0.10
xorg-libsm	1.2.3
xorg-libx11	1.7.2
xorg-libxau	1.0.9
xorg-libxdmcp	1.1.3
xorg-libxext	1.3.4
xorg-libxrender	0.9.10
xorg-renderproto	0.11.1
xorg-xextproto	7.3.0
xorg-xproto	7.0.31
xz	5.2.5
yaml	0.2.5
yarl	1.7.2
zeromq	4.3.4
zfp	0.5.5
zict	2.0.0
zipp	3.6.0
zlib	1.2.11
zstd	1.5.0

Scala 2.11 Libraries for Workbench

This section lists the packages in Scala 2.11.12 Workbench Runtimes that ship with ML Runtimes 2021.12.

Scala 2.11.12 Libraries for Workbench - Standard

Library	Version
org.scala-lang:scala-library	2.11.12
org.scalatest:scalatest	2.2.4
org.scala-lang:scala-compiler	2.11.12
io.circe:circe-generic	0.11.2
io.circe:circe-parser	0.11.2
org.scalameta:scalameta	1.0.0

Python 3.9.6 Libraries for JupyterLab

This section lists the packages in Python 3.9 JupyterLab Runtimes that ship with ML Runtimes 2021.12.

Table 9: Packages in Python 3.9.6 JupyterLab Runtimes - Standard

Library	Version
python	3.9.6
pip	21.1.3
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.1
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.2.8
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4

Library	Version
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Library	Version
webencodings	0.5.1
websocket-client	1.2.1

Table 10: Packages in Python 3.9.6 JupyterLab Runtimes - Nvidia GPU Edition

Library	Version
python	3.9.6
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.1
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.2.8
jupyterlab-pygments	0.1.2

Library	Version
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0

Library	Version
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1

Python 3.8 Libraries for JupyterLab

This section lists the packages in Python 3.8 JupyterLab Runtimes that ship with ML Runtimes 2021.012.

Table 11: Packages in Python 3.8.6 JupyterLab Runtimes - Standard

Library	Version
python	3.8.6
pip	21.1.3
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.1
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5

Library	Version
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.2.8
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0

Library	Version
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1

Table 12: Packages in Python 3.8.6 JupyterLab Runtimes - Nvidia GPU Edition

Library	Version
python	3.8.6
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.1
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
impyla	0.17.0
ipykernel	5.3.4

Library	Version
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.2.8
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3

Library	Version
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1

Table 13: Packages in Python 3.8.6 JupyterLab Runtimes - RAPIDS

Library	Version
python	3.8.6
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
_libgcc_mutex	0.1
_openmp_mutex	4.5
abseil-cpp	20210324.2
aiohttp	3.8.1
aiosignal	1.2.0
anyio	3.3.0
appdirs	1.4.4
argon2-cffi	20.1.0
arrow-cpp	5.0.0
arrow-cpp-proc	3.0.0
async-timeout	4.0.1
async_generator	1.10
attrs	20.3.0
aws-c-auth	0.6.7

Library	Version
aws-c-cal	0.5.12
aws-c-common	0.6.17
aws-c-compression	0.2.14
aws-c-event-stream	0.2.7
aws-c-http	0.6.10
aws-c-io	0.10.13
aws-c-mqtt	0.7.9
aws-c-s3	0.1.27
aws-c-sdkutils	0.1.1
aws-checksums	0.1.12
aws-crt-cpp	0.17.8
aws-sdk-cpp	1.9.145
babel	2.9.1
backcall	0.2.0
backports	1.0
backports.functools_lru_cache	1.6.4
bleach	3.3.1
blosc	1.21.0
bokeh	2.4.0
boost	1.74.0
boost-cpp	1.74.0
brotli	1.0.9
brotli-bin	1.0.9
brotlipy	0.7.0
brunsli	0.1
bzip2	1.0.8
c-ares	1.18.1
c-blosc2	2.0.4
ca-certificates	2021.10.8
cachetools	4.2.4
cairo	1.16.0
cdsw	1.1.0
certifi	2020.11.8
cffi	1.14.4
cfitsio	3.470
chardet	4.0.0
charls	2.2.0
charset-normalizer	2.0.6
click	8.0.3

Library	Version
click-plugins	1.1.1
cligj	0.7.2
cloudpickle	2.0.0
colorama	0.4.4
colorcet	3.0.0
cryptography	36.0.1
cucim	21.12.00
cudatoolkit	11.0.221
cudf	21.12.02
cudf_kafka	21.12.02
cudnn	8.2.1.32
cugraph	21.12.00
cuml	21.12.00
cupy	9.6.0
curl	7.80.0
cusignal	21.12.00
cuspatial	21.12.00
custreamz	21.12.02
cuxfilter	21.12.00
cycler	0.11.0
cyrus-sasl	2.1.27
cytoolz	0.11.2
dask	2021.11.2
dask-core	2021.11.2
dask-cuda	21.12.00
dask-cudf	21.12.02
datashader	0.11.1
datashape	0.5.4
debugpy	1.5.1
decorator	4.4.2
defusedxml	0.6.0
distributed	2021.11.2
dlpack	0.5
entrypoints	0.3
expat	2.4.1
faiss-proc	1.0.0
fastavro	1.4.7
fastrlock	0.8
fiona	1.8.20

Library	Version
font-ttf-dejavu-sans-mono	2.37
font-ttf-inconsolata	3.000
font-ttf-source-code-pro	2.038
font-ttf-ubuntu	0.83
fontconfig	2.13.1
fonts-conda-ecosystem	1
fonts-conda-forge	1
fonttools	4.28.4
freetype	2.10.4
freexl	1.0.6
frozenlist	1.2.0
fsspec	2021.11.1
gdal	3.3.2
geopandas	0.9.0
geopandas-base	0.9.0
geos	3.9.1
geotiff	1.7.0
gettext	0.19.8.1
gflags	2.2.2
giflib	5.2.1
git	2.34.1
glog	0.5.0
gpuci-tools	0.3.1
grpc-cpp	1.41.1
hdf4	4.2.15
hdf5	1.12.1
heapdict	1.0.1
icu	68.2
idna	2.10
imagecodecs	2021.8.26
imageio	2.13.3
importlib-metadata	4.8.3
importlib_metadata	4.8.3
importlib_resources	5.4.0
ipykernel	5.3.4
ipython	7.16.1
ipython_genutils	0.2.0
ipywidgets	7.6.5
jbig	2.1

Library	Version
jedi	0.17.2
jinja2	2.11.3
joblib	1.1.0
jpeg	9d
json-c	0.15
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyter-server-proxy	3.2.0
jupyterlab	3.2.8
jupyterlab-server	2.7.2
jupyterlab_pygments	0.1.2
jupyterlab_widgets	1.0.2
jxrlib	1.1
kealib	1.4.14
kiwisolver	1.3.2
krb5	1.19.2
lcms2	2.12
ld_impl_linux-64	2.36.1
lerc	3.0
libaec	1.0.6
libblas	3.9.0
libbrotlicommon	1.0.9
libbrotlidec	1.0.9
libbrotlienc	1.0.9
libcblas	3.9.0
libcucim	21.12.00
libcudf	21.12.02
libcudf_kafka	21.12.02
libcugraph	21.12.00
libcuml	21.12.00
libcumlprims	21.12.00
libcurl	7.80.0
libcusolver	11.3.2.107
libcuspatial	21.12.00
libdap4	3.20.6
libdeflate	1.8

Library	Version
libedit	3.1.20191231
libev	4.33
libevent	2.1.10
libfaiss	1.7.0
libffi	3.4.2
libgcc-ng	9.4.0
libgcrypt	1.9.4
libgdal	3.3.2
libgfortran-ng	11.2.0
libgfortran5	11.2.0
libglib	2.70.2
libgpg-error	1.42
libgsasl	1.10.0
libhwloc	2.3.0
libiconv	1.16
libkml	1.3.0
liblapack	3.9.0
libllvm11	11.1.0
libnetcdf	4.8.1
libnghttp2	1.43.0
libnsl	2.0.0
libntlm	1.4
libopenblas	0.3.18
libpng	1.6.37
libpq	13.5
libprotobuf	3.18.1
librdkafka	1.6.1
librmm	21.12.00
librttopo	1.1.0
libsodium	1.0.18
libspatialindex	1.9.3
libspatialite	5.0.1
libssh2	1.10.0
libstdcxx-ng	9.4.0
libthrift	0.15.0
libtiff	4.3.0
libutf8proc	2.7.0
libuuid	2.32.1
libuv	1.42.0

Library	Version
libwebp	1.2.1
libwebp-base	1.2.1
libxcb	1.13
libxgboost	1.5.0dev.rapidsai21.12
libxml2	2.9.12
libzip	1.8.0
libzlib	1.2.11
libzopfli	1.0.3
llvm-openmp	12.0.1
llvmlite	0.37.0
locket	0.2.0
lz4-c	1.9.3
mapclassify	2.4.3
markdown	3.3.6
markupsafe	1.1.1
matplotlib-base	3.5.1
matplotlib-inline	0.1.3
mistune	0.8.4
msgpack-python	1.0.3
multidict	5.2.0
multipledispatch	0.6.0
munch	2.5.0
munkres	1.1.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nccl	2.11.4.1
ncurses	6.2
nest-asyncio	1.5.1
networkx	2.6.3
nodejs	14.17.4
notebook	6.4.3
nspr	4.32
nss	3.73
numba	0.54.1
numpy	1.20.3
nvtx	0.2.3
olefile	0.46

Library	Version
openjpeg	2.4.0
openssl	1.1.1l
orc	1.7.1
packaging	20.9
pandas	1.3.5
pandoc	2.16.2
pandocfilters	1.4.3
panel	0.12.4
param	1.12.0
parquet-cpp	1.5.1
parso	0.7.1
partd	1.2.0
pcre	8.45
pcre2	10.37
perl	5.32.1
pexpect	4.8.0
pickleshare	0.7.5
pillow	8.4.0
pip	21.3.1
pixman	0.40.0
pooch	1.5.2
poppler	21.09.0
poppler-data	0.4.11
postgresql	13.5
proj	8.1.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
protobuf	3.18.1
psutil	5.8.0
pthread-stubs	0.4
ptxcompiler	0.2.0
ptyprocess	0.6.0
py-xgboost	1.5.0dev.rapidsai21.12
py4j	0.10.9
pyarrow	5.0.0
pycparser	2.20
pyct	0.4.6
pyct-core	0.4.6
pydeck	0.5.0

Library	Version
pyee	8.1.0
pygments	2.8.1
pynvml	11.4.1
pyopenssl	21.0.0
pyparsing	2.4.7
pyppeteer	0.2.6
pyproj	3.1.0
pyrsistent	0.17.3
pysocks	1.7.1
python	3.8.12
python-confluent-kafka	1.6.0
python-dateutil	2.8.1
python_abi	3.8
pytz	2021.1
pyviz_comms	2.1.0
pywavelets	1.2.0
pyyaml	6.0
pyzmq	19.0.2
rapids	21.12.00
rapids-xgboost	21.12.00
re2	2021.11.01
readline	8.1
requests	2.25.1
requests-unixsocket	0.2.0
rmm	21.12.00
rtree	0.9.7
s2n	1.3.0
scikit-image	0.18.1
scikit-learn	1.0.1
scipy	1.7.3
send2trash	1.5.0
setuptools	59.6.0
shapely	1.8.0
simpervisor	0.4
six	1.15.0
snappy	1.1.8
sniffio	1.2.0
sortedcontainers	2.4.0
spdlog	1.8.5

Library	Version
sqlite	3.37.0
streamz	0.6.3
tblib	1.7.0
terminado	0.9.2
testpath	0.4.4
threadpoolctl	3.0.0
tifffile	2021.11.2
tiledb	2.3.4
tk	8.6.11
toolz	0.11.2
tornado	6.1
tqdm	4.62.3
traitlets	4.3.3
treelite	2.1.0
treelite-runtime	2.1.0
typing-extensions	4.0.1
typing_extensions	4.0.1
tzcode	2021e
tzdata	2021e
ucx	1.11.2+gef2bbcf
ucx-proc	1.0.0
ucx-py	0.23.0
unicodedata2	13.0.0.post2
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1
websockets	9.1
wheel	0.37.0
widgetsnbextension	3.5.2
xarray	0.20.2
xerces-c	3.2.3
xgboost	1.5.0dev.rapidsai21.12
xorg-kbproto	1.0.7
xorg-libice	1.0.10
xorg-libsm	1.2.3
xorg-libx11	1.7.2
xorg-libxau	1.0.9
xorg-libxdmcp	1.1.3

Library	Version
xorg-libxext	1.3.4
xorg-libxrender	0.9.10
xorg-renderproto	0.11.1
xorg-xextproto	7.3.0
xorg-xproto	7.0.31
xz	5.2.5
yaml	0.2.5
yarl	1.7.2
zeromq	4.3.4
zfp	0.5.5
zict	2.0.0
zipp	3.6.0
zlib	1.2.11
zstd	1.5.0

Python 3.7 Libraries for JupyterLab

This section lists the packages in Python 3.7 JupyterLab Runtimes that ship with ML Runtimes 2021.12.

Table 14: Packages in Python 3.7.11 JupyterLab Runtimes - Standard

Library	Version
python	3.7.11
pip	21.1.3
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.1
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10

Library	Version
importlib-metadata	3.4.0
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.2.8
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.4.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20

Library	Version
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1
zipp	3.4.0

Table 15: Packages in Python 3.7.11 JupyterLab Runtimes - Nvidia GPU Edition

Library	Version
python	3.7.11
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.1
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8

Library	Version
cffi	1.14.4
chardet	4.0.0
charset-normalizer	2.0.6
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
importlib-metadata	3.4.0
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.2.8
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0

Library	Version
pickleshare	0.7.5
Pillow	8.4.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1
zipp	3.4.0

Table 16: Packages in Python 3.7.11 JupyterLab Runtimes - RAPIDS

Library	Version
python	3.7.11
pip	21.1.3
_libgcc_mutex	0.1
_openmp_mutex	4.5
abseil-cpp	20210324.2

Library	Version
aiohttp	3.8.1
aiosignal	1.2.0
anyio	3.3.0
appdirs	1.4.4
argcomplete	1.12.3
argon2-cffi	20.1.0
arrow-cpp	5.0.0
arrow-cpp-proc	3.0.0
async-timeout	4.0.1
async_generator	1.10
asynctest	0.13.0
attrs	20.3.0
aws-c-auth	0.6.7
aws-c-cal	0.5.12
aws-c-common	0.6.17
aws-c-compression	0.2.14
aws-c-event-stream	0.2.7
aws-c-http	0.6.10
aws-c-io	0.10.13
aws-c-mqtt	0.7.9
aws-c-s3	0.1.27
aws-c-sdkutils	0.1.1
aws-checksums	0.1.12
aws-crt-cpp	0.17.8
aws-sdk-cpp	1.9.145
babel	2.9.1
backcall	0.2.0
backports	1.0
backports.functools_lru_cache	1.6.4
bleach	3.3.1
blosc	1.21.0
bokeh	2.4.0
boost	1.74.0
boost-cpp	1.74.0
brotli	1.0.9
brotli-bin	1.0.9
brotlipy	0.7.0
brunsli	0.1
bzip2	1.0.8

Library	Version
c-ares	1.18.1
c-blosc2	2.0.4
ca-certificates	2021.10.8
cachetools	4.2.4
cairo	1.16.0
cdsw	1.1.0
certifi	2020.11.8
cffi	1.14.4
cfitsio	3.470
chardet	4.0.0
charls	2.2.0
charset-normalizer	2.0.6
click	8.0.3
click-plugins	1.1.1
cligj	0.7.2
cloudpickle	2.0.0
colorama	0.4.4
colorcet	3.0.0
cryptography	36.0.1
cucim	21.12.00
cudatoolkit	11.0.221
cudf	21.12.02
cudf_kafka	21.12.02
cudnn	8.2.1.32
cugraph	21.12.00
cuml	21.12.00
cupy	9.6.0
curl	7.80.0
cusignal	21.12.00
cuspatial	21.12.00
custreamz	21.12.02
cuxfilter	21.12.00
cycler	0.11.0
cyrus-sasl	2.1.27
cytoolz	0.11.2
dask	2021.11.2
dask-core	2021.11.2
dask-cuda	21.12.00
dask-cudf	21.12.02

Library	Version
datashader	0.11.1
datashape	0.5.4
debugpy	1.5.1
decorator	4.4.2
defusedxml	0.6.0
distributed	2021.11.2
dlpack	0.5
entrypoints	0.3
expat	2.4.1
faiss-proc	1.0.0
fastavro	1.4.7
fastrlock	0.8
fiona	1.8.20
font-ttf-dejavu-sans-mono	2.37
font-ttf-inconsolata	3.000
font-ttf-source-code-pro	2.038
font-ttf-ubuntu	0.83
fontconfig	2.13.1
fonts-conda-ecosystem	1
fonts-conda-forge	1
fonttools	4.28.4
freetype	2.10.4
freexl	1.0.6
frozenlist	1.2.0
fsspec	2021.11.1
gdal	3.3.2
geopandas	0.9.0
geopandas-base	0.9.0
geos	3.9.1
geotiff	1.7.0
gettext	0.19.8.1
gflags	2.2.2
giflib	5.2.1
git	2.34.1
glog	0.5.0
gpuci-tools	0.3.1
grpc-cpp	1.41.1
hdf4	4.2.15
hdf5	1.12.1

Library	Version
heapdict	1.0.1
icu	68.2
idna	2.10
imagecodecs	2021.8.26
imageio	2.13.3
importlib-metadata	3.4.0
importlib_metadata	4.8.3
importlib_resources	5.4.0
ipykernel	5.3.4
ipython	7.16.1
ipython_genutils	0.2.0
ipywidgets	7.6.5
jbig	2.1
jedi	0.17.2
jinja2	2.11.3
joblib	1.1.0
jpeg	9d
json-c	0.15
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyter-server-proxy	3.2.0
jupyterlab	3.2.8
jupyterlab-server	2.7.2
jupyterlab_pygments	0.1.2
jupyterlab_widgets	1.0.2
jxrlib	1.1
kealib	1.4.14
kiwisolver	1.3.2
krb5	1.19.2
lcms2	2.12
ld_impl_linux-64	2.36.1
lerc	3.0
libaec	1.0.6
libblas	3.9.0
libbrotlicommon	1.0.9
libbrotlidec	1.0.9

Library	Version
libbrotlienc	1.0.9
libcblas	3.9.0
libcucim	21.12.00
libcudf	21.12.02
libcudf_kafka	21.12.02
libcugraph	21.12.00
libcuml	21.12.00
libcumlprims	21.12.00
libcurl	7.80.0
libcusolver	11.3.2.107
libcuspatial	21.12.00
libdap4	3.20.6
libdeflate	1.8
libedit	3.1.20191231
libev	4.33
libevent	2.1.10
libfaiss	1.7.0
libffi	3.4.2
libgcc-ng	9.4.0
libgcrypt	1.9.4
libgdal	3.3.2
libgfortran-ng	11.2.0
libgfortran5	11.2.0
libglib	2.70.2
libgpg-error	1.42
libgsasl	1.10.0
libhwloc	2.3.0
libiconv	1.16
libkml	1.3.0
liblapack	3.9.0
libllvm11	11.1.0
libnetcdf	4.8.1
libnghttp2	1.43.0
libnsl	2.0.0
libntlm	1.4
libopenblas	0.3.18
libpng	1.6.37
libpq	13.5
libprotobuf	3.18.1

Library	Version
librdkafka	1.6.1
librmm	21.12.00
librttopo	1.1.0
libsodium	1.0.18
libspatialindex	1.9.3
libspatialite	5.0.1
libssh2	1.10.0
libstdcxx-ng	9.4.0
libthrift	0.15.0
libtiff	4.3.0
libutf8proc	2.7.0
libuuid	2.32.1
libuv	1.42.0
libwebp	1.2.1
libwebp-base	1.2.1
libxcb	1.13
libxgboost	1.5.0dev.rapidsai21.12
libxml2	2.9.12
libzip	1.8.0
libzlib	1.2.11
libzopfli	1.0.3
llvm-openmp	12.0.1
llvmlite	0.37.0
locket	0.2.0
lz4-c	1.9.3
mapclassify	2.4.3
markdown	3.3.6
markupsafe	1.1.1
matplotlib-base	3.5.1
matplotlib-inline	0.1.3
mistune	0.8.4
msgpack-python	1.0.3
multidict	5.2.0
multipledispatch	0.6.0
munch	2.5.0
munkres	1.1.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7

Library	Version
nbformat	5.1.3
nccl	2.11.4.1
ncurses	6.2
nest-asyncio	1.5.1
networkx	2.6.3
nodejs	14.17.4
notebook	6.4.3
nspr	4.32
nss	3.73
numba	0.54.1
numpy	1.20.3
nvtx	0.2.3
olefile	0.46
openjpeg	2.4.0
openssl	1.1.1l
orc	1.7.1
packaging	20.9
pandas	1.3.5
pandoc	2.16.2
pandocfilters	1.4.3
panel	0.12.4
param	1.12.0
parquet-cpp	1.5.1
parso	0.7.1
partd	1.2.0
pcre	8.45
pcre2	10.37
perl	5.32.1
pexpect	4.8.0
pickle5	0.0.12
pickleshare	0.7.5
pillow	8.4.0
pip	21.3.1
pixman	0.40.0
pooch	1.5.2
poppler	21.09.0
poppler-data	0.4.11
postgresql	13.5
proj	8.1.0

Library	Version
prometheus-client	0.9.0
prompt-toolkit	3.0.8
protobuf	3.18.1
psutil	5.8.0
pthread-stubs	0.4
ptxcompiler	0.2.0
ptyprocess	0.6.0
py-xgboost	1.5.0dev.rapidsai21.12
py4j	0.10.9
pyarrow	5.0.0
pycparser	2.20
pyct	0.4.6
pyct-core	0.4.6
pydeck	0.5.0
pyee	8.1.0
pygments	2.8.1
pynvml	11.4.1
pyopenssl	21.0.0
pyparsing	2.4.7
pyppeteer	0.2.6
pyproj	3.1.0
pyrsistent	0.17.3
pysocks	1.7.1
python	3.7.12
python-confluent-kafka	1.6.0
python-dateutil	2.8.1
python_abi	3.7
pytz	2021.1
pyviz_comms	2.1.0
pywavelets	1.2.0
pyyaml	6.0
pyzmq	19.0.2
rapids	21.12.00
rapids-xgboost	21.12.00
re2	2021.11.01
readline	8.1
requests	2.25.1
requests-unixsocket	0.2.0
rmm	21.12.00

Library	Version
rtree	0.9.7
s2n	1.3.0
scikit-image	0.18.1
scikit-learn	1.0.1
scipy	1.7.3
send2trash	1.5.0
setuptools	59.6.0
shapely	1.8.0
simpervisor	0.4
six	1.15.0
snappy	1.1.8
sniffio	1.2.0
sortedcontainers	2.4.0
spdlog	1.8.5
sqlite	3.37.0
streamz	0.6.3
tblib	1.7.0
terminado	0.9.2
testpath	0.4.4
threadpoolctl	3.0.0
tifffile	2021.11.2
tiledb	2.3.4
tk	8.6.11
toolz	0.11.2
tornado	6.1
tqdm	4.62.3
traitlets	4.3.3
treelite	2.1.0
treelite-runtime	2.1.0
typing-extensions	3.7.4.3
tzcode	2021e
tzdata	2021e
ucx	1.11.2+gef2bbcf
ucx-proc	1.0.0
ucx-py	0.23.0
unicodedata2	13.0.0.post2
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1

Library	Version
websocket-client	1.2.1
websockets	9.1
wheel	0.37.0
widgetsnbextension	3.5.2
xarray	0.20.2
xerces-c	3.2.3
xgboost	1.5.0dev.rapidsai21.12
xorg-kbproto	1.0.7
xorg-libice	1.0.10
xorg-libsm	1.2.3
xorg-libx11	1.7.2
xorg-libxau	1.0.9
xorg-libxdmcp	1.1.3
xorg-libxext	1.3.4
xorg-libxrender	0.9.10
xorg-renderproto	0.11.1
xorg-xextproto	7.3.0
xorg-xproto	7.0.31
xz	5.2.5
yaml	0.2.5
yarl	1.7.2
zeromq	4.3.4
zfp	0.5.5
zict	2.0.0
zipp	3.4.0
zlib	1.2.11
zstd	1.5.0

R 4.0 Libraries

This section lists the R 4.0 libraries that ship with ML Runtimes 2021.12.

Table 17: R 4.0.5 Libraries for Workbench

Library	Version
askpass	1.1
base	4.0.5
bitops	1.0-7
boot	1.3-27
brew	1.0-6
Cairo	1.2-0

Library	Version
caTools	1.18.2
cdsw	2.1
class	7.3-18
cli	3.0.1
cluster	2.1.1
codetools	0.2-18
colorspace	2.0-2
compiler	4.0.5
crayon	1.4.1
curl	4.3.2
datasets	4.0.5
digest	0.6.27
ellipsis	0.3.2
fansi	0.5.0
farver	2.1.0
foreign	0.8-81
ggplot2	3.3.5
glue	1.4.2
graphics	4.0.5
grDevices	4.0.5
grid	4.0.5
gtable	0.3.0
httr	1.4.2
jsonlite	1.7.2
KernSmooth	2.23-18
labeling	0.4.2
lattice	0.20-41
lifecycle	1.0.0
magrittr	2.0.1
MASS	7.3-53.1
Matrix	1.3-2
methods	4.0.5
mgcv	1.8-34
mime	0.11
munsell	0.5.0
nlme	3.1-152
nnet	7.3-15
openssl	1.4.4
parallel	4.0.5

Library	Version
pillar	1.6.2
pkgconfig	2.0.3
png	0.1-7
R6	2.5.1
RColorBrewer	1.1-2
RJSONIO	1.3-1.5
rlang	0.4.11
Rook	1.1-1
rpart	4.1-15
Rserve	1.7-0
scales	1.1.1
spatial	7.3-13
splines	4.0.5
stats	4.0.5
stats4	4.0.5
survival	3.2-10
sys	3.4
tcltk	4.0.5
tibble	3.1.4
tools	4.0.5
utf8	1.2.2
utils	4.0.5
vctrs	0.3.8
viridisLite	0.4.0
withr	2.4.2

R 4.1 Libraries

This section lists the R 4.1 libraries that ship with ML Runtimes 2021.12.

Table 18: R 4.0.5 Libraries for Workbench

Library	Version
askpass	1.1
base	4.1.1
bitops	1.0-7
boot	1.3-28
brew	1.0-6
Cairo	1.2-0
caTools	1.18.2
cdsw	2.1

Library	Version
class	7.3-19
cli	3.0.1
cluster	2.1.2
codetools	0.2-18
colorspace	2.0-2
compiler	4.1.1
crayon	1.3.4
curl	4.3.2
datasets	4.1.1
digest	0.6.27
ellipsis	0.3.2
fansi	0.5.0
farver	2.1.0
foreign	0.8-81
ggplot2	3.3.5
glue	1.4.2
graphics	4.1.1
grDevices	4.1.1
grid	4.1.1
gtable	0.3.0
httr	1.4.2
jsonlite	1.7.2
KernSmooth	2.23-20
labeling	0.4.2
lattice	0.20-44
lifecycle	1.0.0
magrittr	2.0.1
MASS	7.3-54
Matrix	1.3-4
methods	4.1.1
mgcv	1.8-36
mime	0.11
munsell	0.5.0
nlme	3.1-152
nnet	7.3-16
openssl	1.4.4
parallel	4.1.1
pillar	1.6.2
pkgconfig	2.0.3

Library	Version
png	0.1-7
R6	2.5.1
RColorBrewer	1.1-2
RJSONIO	1.3-1.5
rlang	0.4.11
Rook	1.1-1
rpart	4.1-15
Rserve	1.7-0
scales	1.1.1
spatial	7.3-14
splines	4.1.1
stats	4.1.1
stats4	4.1.1
survival	3.2-11
sys	3.4
tcltk	4.1.1
tibble	3.1.4
tools	4.1.1
utf8	1.2.2
utils	4.1.1
vctrs	0.3.8
viridisLite	0.4.0
withr	2.4.2

R 3.6 Libraries

This section lists the R 3.6 libraries that ship with ML Runtimes 2021.12.

Table 19: R 3.6.3 Libraries for Workbench

Library	Version
askpass	1.1
base	3.6.3
bitops	1.0-7
boot	1.3-24
brew	1.0-6
Cairo	1.2-0
caTools	1.18.2
cdsw	2.1
class	7.3-15
cli	3.0.1

Library	Version
cluster	2.1.0
codetools	0.2-16
colorspace	2.0-2
compiler	3.6.3
crayon	1.4.4
curl	4.3.2
datasets	3.6.3
digest	0.6.27
ellipsis	0.3.2
fansi	0.5.0
farver	2.1.0
foreign	0.8-75
ggplot2	3.3.5
glue	1.4.2
graphics	3.6.3
grDevices	3.6.3
grid	3.6.3
gtable	0.3.0
httr	1.4.2
jsonlite	1.7.2
KernSmooth	2.23-16
labeling	0.4.2
lattice	0.20-38
lifecycle	0.1.0
magrittr	2.0.1
MASS	7.3-51.5
Matrix	1.2-18
methods	3.6.3
mgcv	1.8-31
mime	0.11
munsell	0.5.0
nlme	3.4-144
nnet	7.3-12
openssl	1.4.4
parallel	3.6.3
pillar	1.6.2
pkgconfig	2.0.3
png	0.1-7
R6	2.5.1

Library	Version
RColorBrewer	1.1-2
RJSONIO	1.3-1.5
rlang	0.4.11
Rook	1.1-1
rpart	4.1-15
Rserve	1.7-0
scales	1.1.1
spatial	7.3-11
splines	3.6.3
stats	3.6.3
stats4	3.6.3
survival	3.1-8
sys	3.4
tcltk	3.6.3
tibble	3.1.4
tools	3.6.3
utf8	1.2.2
utils	3.6.3
vctrs	0.3.8
viridisLite	0.4.0
withr	2.4.2

ML Runtimes 2021.09

This section lists the Python, R, and Scala libraries that ship with ML Runtimes 2021.09.

Note: Nvidia GPU Edition comes with CUDA 11.4.1 preinstalled.

Python 3.9 Libraries for Workbench

This section lists the packages in Python 3.9 Workbench Runtimes that ship with ML Runtimes 2021.09.

Table 20: Packages in Python 3.9.6 Workbench Runtimes - Standard

Library	Version
python	3.9.6
pip	21.1.3
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0

Library	Version
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Table 21: Packages in Python 3.9.6 Workbench Runtimes - Nvidia GPU Edition

Library	Version
python	3.9.6
pip	21.1.3

Library	Version
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6

Library	Version
wcwidth	0.2.5

Python 3.8 Libraries for Workbench

This section lists the packages in Python 3.8 Workbench Runtimes that ship with ML Runtimes 2021.09.

Table 22: Packages in Python 3.8.6 Workbench Runtimes - Standard

Library	Version
python	3.8.6
pip	21.1.3
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2

Library	Version
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Table 23: Packages in Python 3.8.6 Workbench Runtimes - Nvidia GPU Edition

Library	Version
python	3.8.6
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prompt-toolkit	3.0.8
ptyprocess	0.6.0

Library	Version
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Python 3.7 Libraries for Workbench

This section lists the packages in Python 3.7 Workbench Runtimes that ship with ML Runtimes 2021.09.

Table 24: Packages in Python 3.7.11 Workbench Runtimes - Standard

Library	Version
python	3.7.11
pip	21.1.3
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4

Library	Version
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Table 25: Packages in Python 3.7.11 Workbench Runtimes - Nvidia GPU Edition

Library	Version
python	3.7.11
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0

Library	Version
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Python 3.6 Libraries for Workbench

This section lists the packages in Python 3.6 Workbench Runtimes that ship with ML Runtimes 2021.09.

Table 26: Packages in Python 3.6.14 Workbench Runtimes - Standard

Library	Version
python	3.6.14
pip	21.1.3
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0

Library	Version
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5

Table 27: Packages in Python 3.6.14 Workbench Runtimes - Nvidia GPU Edition

Library	Version
python	3.6.14
pip	21.1.3

Library	Version
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kerberos	1.3.1
kiwisolver	1.3.1
matplotlib	3.3.4
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6

Library	Version
wcwidth	0.2.5

Scala 2.11 Libraries for Workbench

This section lists the packages in Scala 2.11.12 Workbench Runtimes that ship with ML Runtimes 2021.09.

Scala 2.11.12 Libraries for Workbench - Standard

- org.scala-lang:scala-library:2.11.12
- org.scalatest:scalatest:2.2.4:test
- org.scala-lang:scala-reflect:2.11.12
- org.scala-lang:scala-compiler:2.11.12
- io.circe:circe-generic:0.11.2
- io.circe:circe-parser:0.11.2
- org.scalameta:scalameta:1.0.0

Python 3.9.6 Libraries for JupyterLab

This section lists the packages in Python 3.9 JupyterLab Runtimes that ship with ML Runtimes 2021.09.

Table 28: Packages in Python 3.9.6 JupyterLab Runtimes - Standard

Library	Version
python	3.9.6
pip	21.1.3
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0

Library	Version
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.0.17
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1

Library	Version
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1

Table 29: Packages in Python 3.9.6 JupyterLab Runtimes - Nvidia GPU Edition

Library	Version
python	3.9.6
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10

Library	Version
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.0.17
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1

Library	Version
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1

Python 3.8 Libraries for JupyterLab

This section lists the packages in Python 3.8 JupyterLab Runtimes that ship with ML Runtimes 2021.09.

Table 30: Packages in Python 3.8.6 JupyterLab Runtimes - Standard

Library	Version
python	3.8.6
pip	21.1.3
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0

Library	Version
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.0.17
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prometheus-client	0.9.0
prompt-toolkit	3.0.8

Library	Version
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1

Table 31: Packages in Python 3.8.6 JupyterLab Runtimes - Nvidia GPU Edition

Library	Version
python	3.8.6
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0

Library	Version
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.0.17
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0

Library	Version
pickleshare	0.7.5
Pillow	8.3.1
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1

Python 3.7 Libraries for JupyterLab

This section lists the packages in Python 3.7 JupyterLab Runtimes that ship with ML Runtimes 2021.09.

Table 32: Packages in Python 3.7.11 JupyterLab Runtimes - Standard

Library	Version
python	3.7.11
pip	21.1.3
anyio	3.3.0
argon2-cffi	20.1.0

Library	Version
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
importlib-metadata	3.4.0
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.0.17
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1

Library	Version
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1
zipp	3.4.0

Table 33: Packages in Python 3.7.11 JupyterLab Runtimes - Nvidia GPU Edition

Library	Version
python	3.7.11
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
importlib-metadata	3.4.0
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.0.17
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1

Library	Version
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3

Library	Version
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1
zipp	3.4.0

Python 3.6 Libraries for JupyterLab

This section lists the packages in Python 3.6 JupyterLab Runtimes that ship with ML Runtimes 2021.09.

Table 34: Packages in Python 3.6.14 JupyterLab Runtimes - Standard

Library	Version
python	3.6.14
pip	21.1.3
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
contextvars	2.4
cycler	0.10.0
dataclasses	0.8
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
immutables	0.14
importlib-metadata	3.4.0
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3

Library	Version
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.0.17
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1

Library	Version
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1
zipp	3.4.0

Table 35: Packages in Python 3.6.14 JupyterLab Runtimes - Nvidia GPU Edition

Library	Version
python	3.6.14
pip	21.1.3
cuda	11.4.1-1
libcudnn8	8.2.2.26-1
anyio	3.3.0
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.1
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
contextvars	2.4
cycler	0.10.0
dataclasses	0.8
decorator	4.4.2
defusedxml	0.6.0

Library	Version
entrypoints	0.3
idna	2.10
immutables	0.14
importlib-metadata	3.4.0
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.10.2
jupyterlab	3.0.17
jupyterlab-pygments	0.1.2
jupyterlab-server	2.7.2
kerberos	1.3.1
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.4
mistune	0.8.4
nbclassic	0.3.1
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.3
nest-asyncio	1.5.1
notebook	6.4.3
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.3.1
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0

Library	Version
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
requests-unixsocket	0.2.0
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	1.2.1
zipp	3.4.0

R 4.0 Libraries

This section lists the R 4.0 libraries that ship with ML Runtimes 2021.09.

Table 36: R 4.0.5 Libraries for Workbench

Library	Version
askpass	1.1
assertthat	0.2.1
base	4.0.5
bitops	1.0-6
boot	1.3-27
brew	1.0-6
Cairo	1.2-0

Library	Version
caTools	1.18.0
cdsw	2.1
class	7.3-18
cli	2.0.1
cluster	2.1.1
codetools	0.2-18
colorspace	1.4-1
compiler	4.0.5
crayon	1.3.4
curl	4.3
datasets	4.0.5
digest	0.6.23
ellipsis	0.3.0
fansi	0.4.1
farver	2.0.3
foreigns	0.8-81
ggplot2	3.2.1
glue	1.3.1
graphics	4.0.5
grDevices	4.0.5
grid	4.0.5
gtable	0.3.0
httr	1.4.1
jsonlite	1.6
KernSmooth	2.23-18
labeling	0.3
lattice	0.20-41
lazyeval	0.2.2
lifecycle	0.1.0
magrittr	1.5
MASS	7.3-53.1
Matrix	1.3-2
methods	4.0.5
mgcv	1.8-34
mime	0.8
munsell	0.5.0
nlme	3.1-152
nnet	7.3-15
openssl	1.4.1

Library	Version
parallel	4.0.5
pillar	1.4.3
pkgconfig	2.0.3
plyr	1.8.5
png	0.1-7
R6	2.4.1
RColorBrewer	1.1-2
Rcpp	1.0.3
reshape2	1.4.3
RJSONIO	1.3-1.4
rlang	0.4.4
Rook	1.1-1
rpart	4.1-15
Rserve	1.7-0
scales	1.1.0
spatial	7.3-13
splines	4.0.5
stats	4.0.5
stats4	4.0.5
stringi	1.4.5
stringr	1.4.0
survival	3.2-10
sys	3.3
tcltk	4.0.5
tibble	2.1.3
tools	4.0.5
utf8	1.1.4
utils	4.0.5
vctrs	0.2.2
viridisLite	0.3.0
withr	2.1.2

R 3.6 Libraries

This section lists the R 3.6 libraries that ship with ML Runtimes 2021.09.

Table 37: R 3.6.3 Libraries for Workbench

Library	Version
askpass	1.1
assertthat	0.2.1

Library	Version
base	3.6.3
bitops	1.0-6
boot	1.3-24
brew	1.0-6
Cairo	1.2-0
caTools	1.18.0
cdsw	2.1
class	7.3-15
cli	2.0.1
cluster	2.1.0
codetools	0.2-16
colorspace	1.4-1
compiler	3.6.3
crayon	1.3.4
curl	4.3
datasets	3.6.3
digest	0.6.23
ellipsis	0.3.0
fansi	0.4.1
farver	2.0.3
foreigns	0.8-75
ggplot2	3.2.1
glue	1.3.1
graphics	3.6.3
grDevices	3.6.3
grid	3.6.3
gtable	0.3.0
httr	1.4.1
jsonlite	1.6
KernSmooth	2.23-16
labeling	0.3
lattice	0.20-38
lazyeval	0.2.2
lifecycle	0.1.0
magrittr	1.5
MASS	7.3-51.5
Matrix	1.2-18
methods	3.6.3
mgcv	1.8-31

Library	Version
mime	0.8
munsell	0.5.0
nlme	3.4-144
nnet	7.3-12
openssl	1.4.1
parallel	3.6.3
pillar	1.4.3
pkgconfig	2.0.3
plyr	1.8.5
png	0.1-7
R6	2.4.1
RColorBrewer	1.1-2
Rcpp	1.0.3
reshape2	1.4.3
RJSONIO	1.3-1.4
rlang	0.4.4
Rook	1.1-1
rpart	4.1-15
Rserve	1.7-0
scales	1.1.0
spatial	7.3-11
splines	3.6.3
stats	3.6.3
stats4	3.6.3
stringi	1.4.5
stringr	1.4.0
survival	3.1-8
sys	3.3
tcltk	3.6.3
tibble	2.1.3
tools	3.6.3
utf8	1.1.4
utils	3.6.3
vctrs	0.2.2
viridisLite	0.3.0
withr	2.1.2

ML Runtimes 2021.06

This section lists the Python and R libraries that ship with ML Runtimes 2021.06.

Note: Nvidia GPU Edition comes with CUDA 11.1 preinstalled.

Python 3.8.6 Libraries for Workbench

This section lists the Python 3.8.6 libraries for Workbench that ship with ML Runtimes 2021.06.

Table 38: Python 3.8.6 Libraries for Workbench - Standard

Library	Version
backcall	0.2.0
bitarray	2.10.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0

Library	Version
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Table 39: Python 3.8.6 Libraries for Workbench - Nvidia GPU Edition

Library	Version
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0

Library	Version
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Python 3.7.9 Libraries for Workbench

This section lists the Python 3.7.9 libraries for Workbench that ship with ML Runtimes 2021.06.

Table 40: Python 3.7.9 Libraries for Workbench - Standard

Library	Version
backcall	0.2.0
bitarray	2.10.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7

Library	Version
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Table 41: Python 3.7.9 Libraries for Workbench - Nvidia GPU Edition

Library	Version
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1

Library	Version
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Python 3.6.12 Libraries for Workbench

This section lists the Python 3.6.12 Scala libraries for Workbench that ship with ML Runtimes 2021.06.

Table 42: Python 3.6.12 Libraries for Workbench - Standard

Library	Version
backcall	0.2.0
bitarray	2.10.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0
prompt-toolkit	3.0.8

Library	Version
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Table 43: Python 3.6.12 Libraries for Workbench - Nvidia GPU Edition

Library	Version
backcall	0.2.0
bitarray	2.1.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0

Library	Version
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
Pygments	2.8.1
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Python 3.8.6 Libraries for JupyterLab

This section lists the Python 3.8.6 libraries for JupyterLab that ship with ML Runtimes 2021.06.

Table 44: Python 3.8.6 Libraries for JupyterLab - Standard

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
impyla	0.17.0
ipykernel	5.3.4

Library	Version
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1

Library	Version
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1

Table 45: Python 3.8.6 Libraries for JupyterLab - Nvidia GPU Edition

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2

Library	Version
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1

Library	Version
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1

Python 3.7.9 Libraries for JupyterLab

This section lists the Python 3.7.9 libraries for JupyterLab that ship with ML Runtimes 2021.06.

Table 46: Python 3.7.9 Libraries for JupyterLab - Standard

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
importlib-metadata	3.4.0
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0

Library	Version
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2

Library	Version
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
zipp	3.4.0

Table 47: Python 3.7.9 Libraries for JupyterLab - Nvidia GPU Edition

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bitarray	2.1.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
importlib-metadata	3.4.0
impyla	0.17.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0

Library	Version
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.2.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
pure-sasl	0.6.2
py4j	0.10.9.1
pycparser	2.20
Pygments	2.8.1
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2

Library	Version
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
thrift	0.11.0
thrift-sasl	0.4.3
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
zipp	3.4.0

Python 3.6.12 Libraries for JupyterLab

This section lists the Python 3.6.12 libraries for JupyterLab that ship with ML Runtimes 2021.06.

Table 48: Python 3.6.12 Libraries for JupyterLab - Standard

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
contextvars	2.4
cycler	0.10.0
dataclasses	0.8
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
immutables	0.14

Library	Version
importlib-metadata	3.4.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
pycparser	2.20
Pygments	2.7.2
pyparsing	2.4.7
pyrsistent	0.17.3

Library	Version
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
zipp	3.4.0

Table 49: Python 3.6.12 Libraries for JupyterLab - Nvidia GPU Edition

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
contextvars	2.4
cycler	0.10.0
dataclasses	0.8
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
immutables	0.14
importlib-metadata	3.4.0
ipykernel	5.3.4

Library	Version
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
pycparser	2.20
Pygments	2.7.2
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1

Library	Version
pyzmq	19.0.2
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
zipp	3.4.0

R 4.0 Libraries

This section lists the R 4.0 libraries that ship with ML Runtimes 2021.06.

Table 50: R 4.0 Libraries for Workbench

Library	Version
askpass	1.1
assertthat	0.2.1
base	4.0.4
bitops	1.0-6
boot	1.3-26
brew	1.0-6
Cairo	1.2-0
caTools	1.18.0
cdsw	2.1
class	7.3-18
cli	2.0.1
cluster	2.1.0
codetools	0.2-18
colorspace	1.4-1
compiler	4.0.4
crayon	1.3.4
curl	4.3
datasets	4.0.4
digest	0.6.23

Library	Version
ellipsis	0.3.0
fansi	0.4.1
farver	2.0.3
foreigns	0.8-81
ggplot2	3.2.1
glue	1.3.1
graphics	4.0.4
grDevices	4.0.4
grid	4.0.4
gtable	0.3.0
httr	1.4.1
jsonlite	1.6
KernSmooth	2.23-18
labeling	0.3
lattice	0.20-41
lazyeval	0.2.2
lifecycle	0.1.0
magrittr	1.5
MASS	7.3-53
Matrix	1.3-2
methods	4.0.4
mgcv	1.8-33
mime	0.8
munsell	0.5.0
nlme	3.1-152
nnet	7.3-15
openssl	1.4.1
parallel	4.0.4
pillar	1.4.3
pkgconfig	2.0.3
plyr	1.8.5
png	0.1-7
R6	2.4.1
RColorBrewer	1.1-2
Rcpp	1.0.3
reshape2	1.4.3
RJSONIO	1.3-1.4
rlang	0.4.4
Rook	1.1-1

Library	Version
rpart	4.1-15
Rserve	1.7-0
scales	1.1.0
spatial	7.3-13
splines	4.0.4
stats	4.0.4
stats4	4.0.4
stringi	1.4.5
stringr	1.4.0
survival	3.2-7
sys	3.3
tcltk	4.0.4
tibble	2.1.3
tools	4.0.4
utf8	1.1.4
utils	4.0.4
vctrs	0.2.2
viridisLite	0.3.0
withr	2.1.2

R 3.6 Libraries

This section lists the R 3.6 libraries that ship with ML Runtimes 2021.06.

Table 51: R 3.6 Libraries for Workbench

Library	Version
askpass	1.1
assertthat	0.2.1
base	3.6.3
bitops	1.0-6
boot	1.3-24
brew	1.0-6
Cairo	1.2-0
caTools	1.18.0
cdsw	2.1
class	7.3-15
cli	2.0.1
cluster	2.1.0
codetools	0.2-16
colorspace	1.4-1

Library	Version
compiler	3.6.3
crayon	1.3.4
curl	4.3
datasets	3.6.3
digest	0.6.23
ellipsis	0.3.0
fansi	0.4.1
farver	2.0.3
foreigns	0.8-75
ggplot2	3.2.1
glue	1.3.1
graphics	3.6.3
grDevices	3.6.3
grid	3.6.3
gtable	0.3.0
httr	1.4.1
jsonlite	1.6
KernSmooth	2.23-16
labeling	0.3
lattice	0.20-38
lazyeval	0.2.2
lifecycle	0.1.0
magrittr	1.5
MASS	7.3-51.5
Matrix	1.2-18
methods	3.6.3
mgcv	1.8-31
mime	0.8
munsell	0.5.0
nlme	3.4-144
nnet	7.3-12
openssl	1.4.1
parallel	3.6.3
pillar	1.4.3
pkgconfig	2.0.3
plyr	1.8.5
png	0.1-7
R6	2.4.1
RColorBrewer	1.1-2

Library	Version
Rcpp	1.0.3
reshape2	1.4.3
RJSONIO	1.3-1.4
rlang	0.4.4
Rook	1.1-1
rpart	4.1-15
Rserve	1.7-0
scales	1.1.0
spatial	7.3-11
splines	3.6.3
stats	3.6.3
stats4	3.6.3
stringi	1.4.5
stringr	1.4.0
survival	3.1-8
sys	3.3
tcltk	3.6.3
tibble	2.1.3
tools	3.6.3
utf8	1.1.4
utils	3.6.3
vctrs	0.2.2
viridisLite	0.3.0
withr	2.1.2

ML Runtimes 2021.04

This section lists the Python and R libraries that ship with ML Runtimes 2021.04.

Note: Nvidia GPU Edition comes with CUDA 11.1 preinstalled.

RAPIDS Runtime PIP Python 3.7.8 Libraries for Workbench

This section lists the RAPIDS Runtime Python 3.8 libraries for Workbench that ship with ML Runtimes 2021.04.

Table 52: RAPIDS Runtime Python 3.7.8 Libraries for Workbench - Standard

Package	Version
aiohttp	3.7.3
appdirs	1.4.4
argon2-cffi	20.1.0

Package	Version
async-generator	1.10
async-timeout	3.0.1
attrs	20.3.0
bleach	3.3.0
bokeh	2.2.3
brotlipy	0.7.0
cdsw	1.0.0
certifi	2020.12.5
cffi	1.14.5
chardet	4.0.0
click	7.1.2
click-plugins	1.1.1
cligj	0.7.1
cloudpickle	1.6.0
colorcet	2.0.6
confluent-kafka	1.5.0
cryptography	3.4.4
cudf	0.18.0a0+254.g1544474166
cudf-kafka	0.18.0a0+254.g1544474166
cugraph	0.18.0a0+301.g0cc951f7.dirty
cuml	0.18.0a0+134.g7ca2db287
cupy	8.0.0
cusignal	0.18.0a0+33.gbc8598c
cuspatial	0.18.0a0+24.g1a2fc18
custreamz	0.18.0a0+254.g1544474166
cuxfilter	0.18.0a0+68.g236aa39
cycler	0.10.0
cytoolz	0.11.0
dask	2021.2.0
dask-cuda	0.18.0a210225
dask-cudf	0.18.0a0+254.g1544474166
datashader	0.11.1
datashape	0.5.4
decorator	4.4.2
defusedxml	0.6.0
distributed	2021.2.0
entrypoints	0.3
fastavro	1.3.2
fastrlock	0.5

Package	Version
Fiona	1.8.18
fsspec	0.8.7
GDAL	3.1.4
geopandas	0.8.1
HeapDict	1.0.1
idna	2.10
importlib-metadata	3.7.0
ipykernel	5.5.0
ipython	7.20.0
ipython-genutils	0.2.0
ipywidgets	7.6.3
jedi	0.18.0
Jinja2	2.11.3
joblib	1.0.1
jsonschema	3.2.0
jupyter-client	6.1.11
jupyter-core	4.7.1
jupyter-server-proxy	1.6.0
jupyterlab-pygments	0.1.2
jupyterlab-widgets	1.0.0
kiwisolver	1.3.1
llvmlite	0.35.0
locket	0.2.0
Markdown	3.3.3
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
msgpack	1.0.2
multidict	5.1.0
multipledispatch	0.6.0
munch	2.5.0
nbclient	0.5.2
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.4.3
networkx	2.5
notebook	6.2.0
numba	0.52.0
numpy	1.19.5

Package	Version
nvtx	0.2.3
olefile	0.46
packaging	20.9
pandas	1.1.5
pandocfilters	1.4.2
panel	0.10.3
param	1.10.1
parso	0.8.1
partd	1.1.0
pexpect	4.8.0
pickle5	0.0.11
pickleshare	0.7.5
Pillow	8.1.0
pip	21.0.1
prometheus-client	0.9.0
prompt-toolkit	3.0.16
protobuf	3.15.2
psutil	5.8.0
ptyprocess	0.7.0
py4j	0.10.9.1
pyarrow	1.0.1
pycparser	2.20
pyct	0.4.6
pydeck	0.5.0
pyee	7.0.4
Pygments	2.8.0
pynvml	8.0.4
pyOpenSSL	20.0.1
pyparsing	2.4.7
pyppeteer	0.2.2
pyproj	2.6.1.post1
PyQt5	5.12.3
PyQt5-sip	4.19.18
PyQtChart	5.12
PyQtWebEngine	5.12.1
pyrsistent	0.17.3
PySocks	1.7.1
python-dateutil	2.8.1
pytz	2021.1

Package	Version
pyviz-comms	2.0.1
PyYAML	5.4.1
pyzmq	22.0.3
requests	2.25.1
rmm	0.18.0
Rtree	0.9.7
scikit-learn	0.24.1
scipy	1.6.0
Send2Trash	1.5.0
setuptools	49.6.0.post20210108
Shapely	1.7.1
simpervisor	0.4
six	1.15.0
sortedcontainers	2.3.0
streamz	0.6.2
tblib	1.6.0
terminado	0.9.2
testpath	0.4.4
threadpoolctl	2.1.0
toolz	0.11.1
tornado	6.1
tqdm	4.57.0
traitlets	5.0.5
treelite	1.0.0
treelite-runtime	1.0.0
typing-extensions	3.7.4.3
ucx-py	0.18.0a0+19.ge17a4dc
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
websockets	8.1
wheel	0.36.2
widgetsnbextension	3.5.1
xarray	0.16.2
xgboost	1.3.3
yarl	1.6.3
zict	2.0.0
zipp	3.4.0

RAPIDS Runtime PIP Python 3.8.6 Libraries for Workbench

This section lists the RAPIDS Runtime Python 3.8 libraries for Workbench that ship with ML Runtimes 2021.04.

Table 53: RAPIDS Runtime Python 3.7.8 Libraries for Workbench - Standard

Package	Version
aiohttp	3.7.3
appdirs	1.4.4
argon2-cffi	20.1.0
async-generator	1.10
async-timeout	3.0.1
attrs	20.3.0
backcall	0.2.0
backports.functools-lru-cache	1.6.1
bleach	3.3.0
bokeh	2.2.3
brotlipy	0.7.0
cdsw	1.0.0
certifi	2020.12.5
cffi	1.14.5
chardet	4.0.0
click	7.1.2
click-plugins	1.1.1
cligj	0.7.1
cloudpickle	1.6.0
colorcet	2.0.6
confluent-kafka	1.5.0
cryptography	3.4.4
cudf	0.18.0a0+254.g1544474166
cudf-kafka	0.18.0a0+254.g1544474166
cugraph	0.18.0a0+301.g0cc951f7.dirty
cuml	0.18.0a0+134.g7ca2db287
cupy	8.0.0
cusignal	0.18.0a0+33.gbc8598c
cuspatial	0.18.0a0+24.g1a2fc18
custreamz	0.18.0a0+254.g1544474166
cycler	0.10.0
cytoolz	0.11.0
dask	2021.2.0
dask-cuda	0.18.0a210225
dask-cudf	0.18.0a0+254.g1544474166

Package	Version
datashader	0.11.1
datashape	0.5.4
decorator	4.4.2
defusedxml	0.6.0
distributed	2021.2.0
entrypoints	0.3
fastavro	1.3.2
fastrlock	0.5
Fiona	1.8.18
fsspec	0.8.7
GDAL	3.1.4
geopandas	0.8.1
HeapDict	1.0.1
hupper	1.10.2
idna	2.10
importlib-metadata	3.7.0
ipykernel	5.5.0
ipython	7.20.0
ipython-genutils	0.2.0
ipywidgets	7.6.3
jedi	0.18.0
Jinja2	2.11.3
joblib	1.0.1
jsonschema	3.2.0
jupyter-client	6.1.11
jupyter-core	4.7.1
jupyter-server-proxy	1.6.0
jupyterlab-pygments	0.1.2
jupyterlab-widgets	1.0.0
kiwisolver	1.3.1
llvmlite	0.35.0
locket	0.2.0
Markdown	3.3.3
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
msgpack	1.0.2
multidict	5.1.0
multipledispatch	0.6.0

Package	Version
munch	2.5.0
nbclient	0.5.2
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.4.3
networkx	2.5
notebook	6.2.0
numba	0.52.0
numpy	1.19.5
nvtx	0.2.3
olefile	0.46
packaging	20.9
pandas	1.1.5
pandocfilters	1.4.2
panel	0.10.3
param	1.10.1
parso	0.8.1
partd	1.1.0
PasteDeploy	2.1.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
pip	21.0.1
plaster	1.0
plaster-pastedeploy	0.7
prometheus-client	0.9.0
prompt-toolkit	3.0.16
protobuf	3.15.2
psutil	5.8.0
ptyprocess	0.7.0
py4j	0.10.9.1
pyarrow	1.0.1
pycparser	2.20
pyct	0.4.6
pydeck	0.5.0
pyee	7.0.4
Pygments	2.8.0
pynvml	8.0.4
pyOpenSSL	20.0.1

Package	Version
pyparsing	2.4.7
pyppeteer	0.2.2
pyproj	2.6.1.post1
PyQt5	5.12.3
PyQt5-sip	4.19.18
PyQtChart	5.12
PyQtWebEngine	5.12.1
pyramid	2.0
pyrsistent	0.17.3
PySocks	1.7.1
python-dateutil	2.8.1
pytz	2021.1
pyviz-comms	2.0.1
PyYAML	5.4.1
pyzmq	22.0.3
rapids	0.0.1
requests	2.25.1
rmm	0.18.0
Rtree	0.9.7
scikit-learn	0.24.1
scipy	1.6.0
Send2Trash	1.5.0
setuptools	49.6.0.post20210108
Shapely	1.7.1
simpervisor	0.4
six	1.15.0
sortedcontainers	2.3.0
streamz	0.6.2
tblib	1.6.0
terminado	0.9.2
testpath	0.4.4
threadpoolctl	2.1.0
toolz	0.11.1
tornado	6.1
tqdm	4.57.0
traitlets	5.0.5
translationstring	1.4
treelite	1.0.0
treelite-runtime	1.0.0

Package	Version
typing-extensions	3.7.4.3
ucx-py	0.18.0a0+19.ge17a4dc
urllib3	1.26.3
venusian	3.0.0
wcwidth	0.2.5
webencodings	0.5.1
WebOb	1.8.7
websockets	8.1
wheel	0.36.2
widgetsnbextension	3.5.1
xarray	0.16.2
xgboost	1.3.3
yarl	1.6.3
zict	2.0.0
zipp	3.4.0
zope.deprecation	4.4.0
zope.interface	5.4.0

RAPIDS Runtime PIP Python 3.7.8 Libraries for JupyterLab

This section lists the RAPIDS Runtime Python 3.7.8 libraries for JupyterLab that ship with ML Runtimes 2021.04.

Table 54: RAPIDS Runtime Python 3.7.8 Libraries for JupyterLab - Standard

Package	Version
aiohttp	3.7.3
anyio	2.0.2
appdirs	1.4.4
argon2-cffi	20.1.0
async-generator	1.10
async-timeout	3.0.1
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
backports.functools-lru-cache	1.6.1
bleach	3.3.0
bokeh	2.2.3
brotlipy	0.7.0
cdsw	1.0.0
certifi	2020.12.5
cffi	1.14.5

Package	Version
chardet	4.0.0
click	7.1.2
click-plugins	1.1.1
cligj	0.7.1
cloudpickle	1.6.0
colorcet	2.0.6
confluent-kafka	1.5.0
cryptography	3.4.4
cudf	0.18.0a0+254.g1544474166
cudf-kafka	0.18.0a0+254.g1544474166
cugraph	0.18.0a0+301.g0cc951f7.dirty
cuml	0.18.0a0+134.g7ca2db287
cupy	8.0.0
cusignal	0.18.0a0+33.gbc8598c
cuspatial	0.18.0a0+24.g1a2fc18
custreamz	0.18.0a0+254.g1544474166
cuxfilter	0.18.0a0+68.g236aa39
cycler	0.10.0
cytoolz	0.11.0
dask	2021.2.0
dask-cuda	0.18.0a210225
dask-cudf	0.18.0a0+254.g1544474166
datashader	0.11.1
datashape	0.5.4
decorator	4.4.2
defusedxml	0.6.0
distributed	2021.2.0
entrypoints	0.3
fastavro	1.3.2
fastrlock	0.5
Fiona	1.8.18
fsspec	0.8.7
GDAL	3.1.4
geopandas	0.8.1
HeapDict	1.0.1
idna	2.10
importlib-metadata	3.7.0
ipykernel	5.5.0
ipython	7.20.0

Package	Version
ipython-genutils	0.2.0
ipywidgets	7.6.3
jedi	0.18.0
Jinja2	2.11.3
joblib	1.0.1
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.11
jupyter-core	4.7.1
jupyter-server	1.2.2
jupyter-server-proxy	1.6.0
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
jupyterlab-widgets	1.0.0
kiwisolver	1.3.1
llvmlite	0.35.0
locket	0.2.0
Markdown	3.3.3
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
msgpack	1.0.2
multidict	5.1.0
multipledispatch	0.6.0
munch	2.5.0
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.4.3
networkx	2.5
notebook	6.2.0
numba	0.52.0
numpy	1.19.5
nvtx	0.2.3
olefile	0.46
packaging	20.9
pandas	1.1.5

Package	Version
pandocfilters	1.4.2
panel	0.10.3
param	1.10.1
parso	0.8.1
partd	1.1.0
pexpect	4.8.0
pickle5	0.0.11
pickleshare	0.7.5
Pillow	8.1.0
pip	21.0.1
prometheus-client	0.9.0
prompt-toolkit	3.0.16
protobuf	3.15.2
psutil	5.8.0
ptyprocess	0.7.0
py4j	0.10.9.1
pyarrow	1.0.1
pycparser	2.20
pyct	0.4.6
pydeck	0.5.0
pyee	7.0.4
Pygments	2.8.0
pynvml	8.0.4
pyOpenSSL	20.0.1
pyparsing	2.4.7
pyppeteer	0.2.2
pyproj	2.6.1.post1
PyQt5	5.12.3
PyQt5-sip	4.19.18
PyQtChart	5.12
PyQtWebEngine	5.12.1
pyrsistent	0.17.3
PySocks	1.7.1
python-dateutil	2.8.1
pytz	2021.1
pyviz-comms	2.0.1
PyYAML	5.4.1
pyzmq	22.0.3
requests	2.25.1

Package	Version
rmm	0.18.0
Rtree	0.9.7
scikit-learn	0.24.1
scipy	1.6.0
Send2Trash	1.5.0
setuptools	49.6.0.post20210108
Shapely	1.7.1
simpervisor	0.4
six	1.15.0
sniffio	1.2.0
sortedcontainers	2.3.0
streamz	0.6.2
tblib	1.6.0
terminado	0.9.2
testpath	0.4.4
threadpoolctl	2.1.0
toolz	0.11.1
tornado	6.1
tqdm	4.57.0
traitlets	5.0.5
treelite	1.0.0
treelite-runtime	1.0.0
typing-extensions	3.7.4.3
ucx-py	0.18.0a0+19.ge17a4dc
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
websockets	8.1
wheel	0.36.2
widgetsnbextension	3.5.1
xarray	0.16.2
xgboost	1.3.3
yarl	1.6.3
zict	2.0.0
zipp	3.4.0

RAPIDS Runtime PIP Python 3.8.6 Libraries for JupyterLab

This section lists the RAPIDS Runtime Python 3.8.6 libraries for JupyterLab that ship with ML Runtimes 2021.04.

Table 55: RAPIDS Runtime Python 3.86 Libraries for JupyterLab - Standard

Package	Version
aiohttp	3.7.3
anyio	2.0.2
appdirs	1.4.4
argon2-cffi	20.1.0
async-generator	1.10
async-timeout	3.0.1
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
backports.functools-lru-cache	1.6.1
bleach	3.3.0
bokeh	2.2.3
brotlipy	0.7.0
cdsw	1.0.0
certifi	2020.12.5
cffi	1.14.5
chardet	4.0.0
click	7.1.2
click-plugins	1.1.1
cligj	0.7.1
cloudpickle	1.6.0
colorcet	2.0.6
confluent-kafka	1.5.0
cryptography	3.4.4
cudf	0.18.0a0+254.g1544474166
cudf-kafka	0.18.0a0+254.g1544474166
cugraph	0.18.0a0+301.g0cc951f7.dirty
cuml	0.18.0a0+134.g7ca2db287
cupy	8.0.0
cusignal	0.18.0a0+33.gbc8598c
cuspatial	0.18.0a0+24.g1a2fc18
custreamz	0.18.0a0+254.g1544474166
cycler	0.10.0
cytoolz	0.11.0
dask	2021.2.0
dask-cuda	0.18.0a210225
dask-cudf	0.18.0a0+254.g1544474166

Package	Version
datashader	0.11.1
datashape	0.5.4
decorator	4.4.2
defusedxml	0.6.0
distributed	2021.2.0
entrypoints	0.3
fastavro	1.3.2
fastrlock	0.5
Fiona	1.8.18
fsspec	0.8.7
GDAL	3.1.4
geopandas	0.8.1
HeapDict	1.0.1
hupper	1.10.2
idna	2.10
importlib-metadata	3.7.0
ipykernel	5.5.0
ipython	7.20.0
ipython-genutils	0.2.0
ipywidgets	7.6.3
jedi	0.18.0
Jinja2	2.11.3
joblib	1.0.1
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.11
jupyter-core	4.7.1
jupyter-server	1.2.2
jupyter-server-proxy	1.6.0
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
jupyterlab-widgets	1.0.0
kiwisolver	1.3.1
llvmlite	0.35.0
locket	0.2.0
Markdown	3.3.3
MarkupSafe	1.1.1
matplotlib	3.3.2

Package	Version
mistune	0.8.4
msgpack	1.0.2
multidict	5.1.0
multipledispatch	0.6.0
munch	2.5.0
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.4.3
networkx	2.5
notebook	6.2.0
numba	0.52.0
numpy	1.19.5
nvtx	0.2.3
olefile	0.46
packaging	20.9
pandas	1.1.5
pandocfilters	1.4.2
panel	0.10.3
param	1.10.1
parso	0.8.1
partd	1.1.0
PasteDeploy	2.1.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
pip	21.0.1
plaster	1.0
plaster-pastedeploy	0.7
prometheus-client	0.9.0
prompt-toolkit	3.0.16
protobuf	3.15.2
psutil	5.8.0
ptyprocess	0.7.0
py4j	0.10.9.1
pyarrow	1.0.1
pycparser	2.20
pyct	0.4.6

Package	Version
pydeck	0.5.0
pyee	7.0.4
Pygments	2.8.0
pynvml	8.0.4
pyOpenSSL	20.0.1
pyparsing	2.4.7
pyppeteer	0.2.2
pyproj	2.6.1.post1
PyQt5	5.12.3
PyQt5-sip	4.19.18
PyQtChart	5.12
PyQtWebEngine	5.12.1
pyramid	2.0
pyrsistent	0.17.3
PySocks	1.7.1
python-dateutil	2.8.1
pytz	2021.1
pyviz-comms	2.0.1
PyYAML	5.4.1
pyzmq	22.0.3
rapids	0.0.1
requests	2.25.1
rmm	0.18.0
Rtree	0.9.7
scikit-learn	0.24.1
scipy	1.6.0
Send2Trash	1.5.0
setuptools	49.6.0.post20210108
Shapely	1.7.1
simpervisor	0.4
six	1.15.0
sniffio	1.2.0
sortedcontainers	2.3.0
streamz	0.6.2
tblib	1.6.0
terminado	0.9.2
testpath	0.4.4
threadpoolctl	2.1.0
toolz	0.11.1

Package	Version
tornado	6.1
tqdm	4.57.0
traitlets	5.0.5
translationstring	1.4
treelite	1.0.0
treelite-runtime	1.0.0
typing-extensions	3.7.4.3
ucx-py	0.18.0a0+19.ge17a4dc
urllib3	1.26.3
venusian	3.0.0
wcwidth	0.2.5
webencodings	0.5.1
WebOb	1.8.7
websockets	8.1
wheel	0.36.2
widgetsnbextension	3.5.1
xarray	0.16.2
xgboost	1.3.3
yarl	1.6.3
zict	2.0.0
zipp	3.4.0
zope.deprecation	4.4.0
zope.interface	5.4.0

ML Runtimes 2021.02

This section lists the Python and R libraries that ship with ML Runtimes 2021.02.

Note: Nvidia GPU Edition comes with CUDA 11.1 preinstalled.

Python 3.8 Libraries for Workbench

This section lists the Python 3.8 libraries for Workbench that ship with ML Runtimes 2021.02.

Table 56: Python 3.8.6 Libraries for Workbench - Standard

Library	Version
backcall	0.2.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0

Library	Version
decorator	4.4.2
idna	2.10
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
Pygments	2.7.2
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Table 57: Python 3.8.6 Libraries for Workbench - Nvidia GPU Edition

Library	Version
backcall	0.2.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
ipykernel	5.3.4
ipython	7.16.1

Library	Version
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
Pygments	2.7.2
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Python 3.7 Libraries for Workbench

This section lists the Python 3.7 libraries for Workbench that ship with ML Runtimes 2021.02.

Table 58: Python 3.7.9 Libraries for Workbench - Standard

Library	Version
backcall	0.2.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0

Library	Version
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
Pygments	2.7.2
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Table 59: Python 3.7.9 Libraries for Workbench - Nvidia GPU Edition

Library	Version
backcall	0.2.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1

Library	Version
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
Pygments	2.7.2
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Python 3.6 Libraries for Workbench

This section lists the Python 3.6 Scala libraries for Workbench that ship with ML Runtimes 2021.02.

Table 60: Python 3.6.12 Libraries for Workbench - Standard

Library	Version
backcall	0.2.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2

Library	Version
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
Pygments	2.7.2
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Table 61: Python 3.6.12 Libraries for Workbench - Nvidia GPU Edition

Library	Version
backcall	0.2.0
certifi	2020.12.5
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
idna	2.10
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
jupyter-client	6.1.7
jupyter-core	4.6.3
kiwisolver	1.3.1
matplotlib	3.3.2
numpy	1.19.4
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5

Library	Version
Pillow	8.1.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
Pygments	2.7.2
pyparsing	2.4.7
python-dateutil	2.8.1
pyzmq	19.0.2
requests	2.25.1
six	1.15.0
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Python 3.8 Libraries for JupyterLab

This section lists the Python 3.8 libraries for JupyterLab that ship with ML Runtimes 2021.02.

Table 62: Python 3.8.6 Libraries for JupyterLab - Standard

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2

Library	Version
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
pycparser	2.20
Pygments	2.7.2
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
Send2Trash	1.5.0

Library	Version
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1

Table 63: Python 3.8.6 Libraries for JupyterLab - Nvidia GPU Edition

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2

Library	Version
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
pycparser	2.20
Pygments	2.7.2
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
tornado	6.1
traitlets	4.3.3
urllib3	1.26.3
wcwidth	0.2.5

Library	Version
webencodings	0.5.1

Python 3.7 Libraries for JupyterLab

This section lists the Python 3.7 libraries for JupyterLab that ship with ML Runtimes 2021.02.

Table 64: Python 3.7.9 Libraries for JupyterLab - Standard

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
importlib-metadata	3.4.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2

Library	Version
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
pycparser	2.20
Pygments	2.7.2
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
zipp	3.4.0

Table 65: Python 3.7.9 Libraries for JupyterLab - Nvidia GPU Edition

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
cycler	0.10.0
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
importlib-metadata	3.4.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1

Library	Version
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
pycparser	2.20
Pygments	2.7.2
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
zipp	3.4.0

Python 3.6 Libraries for JupyterLab

This section lists the Python 3.6 libraries for JupyterLab that ship with ML Runtimes 2021.02.

Table 66: Python 3.6.12 Libraries for JupyterLab - Standard

Library	Version
anyio	2.0.2

Library	Version
argon2-cffi	20.1.0
async-generator	1.10
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
contextvars	2.4
cycler	0.10.0
dataclasses	0.8
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
immutables	0.14
importlib-metadata	3.4.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2

Library	Version
nest-asyncio	1.5.1
notebook	6.2.0
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
pycparser	2.20
Pygments	2.7.2
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
zipp	3.4.0

Table 67: Python 3.6.12 Libraries for JupyterLab - Nvidia GPU Edition

Library	Version
anyio	2.0.2
argon2-cffi	20.1.0
async-generator	1.10

Library	Version
attrs	20.3.0
Babel	2.9.0
backcall	0.2.0
bleach	3.3.0
certifi	2020.11.8
cffi	1.14.4
chardet	4.0.0
contextvars	2.4
cycler	0.10.0
dataclasses	0.8
decorator	4.4.2
defusedxml	0.6.0
entrypoints	0.3
idna	2.10
immutables	0.14
importlib-metadata	3.4.0
ipykernel	5.3.4
ipython	7.16.1
ipython-genutils	0.2.0
jedi	0.17.2
Jinja2	2.11.3
json5	0.9.5
jsonschema	3.2.0
jupyter-client	6.1.7
jupyter-core	4.6.3
jupyter-server	1.2.2
jupyterlab	3.0.6
jupyterlab-pygments	0.1.2
jupyterlab-server	2.1.3
kiwisolver	1.3.1
MarkupSafe	1.1.1
matplotlib	3.3.2
mistune	0.8.4
nbclassic	0.2.6
nbclient	0.5.1
nbconvert	6.0.7
nbformat	5.1.2
nest-asyncio	1.5.1
notebook	6.2.0

Library	Version
numpy	1.19.4
packaging	20.9
pandocfilters	1.4.3
parso	0.7.1
pexpect	4.8.0
pickleshare	0.7.5
Pillow	8.1.0
prometheus-client	0.9.0
prompt-toolkit	3.0.8
ptyprocess	0.6.0
py4j	0.10.9.1
pycparser	2.20
Pygments	2.7.2
pyparsing	2.4.7
pyrsistent	0.17.3
python-dateutil	2.8.1
pytz	2021.1
pyzmq	19.0.2
requests	2.25.1
Send2Trash	1.5.0
six	1.15.0
sniffio	1.2.0
terminado	0.9.2
testpath	0.4.4
tornado	6.1
traitlets	4.3.3
typing-extensions	3.7.4.3
urllib3	1.26.3
wcwidth	0.2.5
webencodings	0.5.1
zipp	3.4.0

R 4.0 Libraries

This section lists the R 4.0 libraries that ship with ML Runtimes 2021.02.

Table 68: R 4.0 Libraries for Workbench

Library	Version
askpass	1.1
assertthat	0.2.1

Library	Version
base	4.0.3
bitops	1.0-6
boot	1.3-25
brew	1.0-6
Cairo	1.2-0
caTools	1.18.0
cdsw	2.1
class	7.3-17
cli	2.0.1
cluster	2.1.0
codetools	0.2-16
colorspace	1.4-1
compiler	4.0.3
crayon	1.3.4
curl	4.3
datasets	4.0.3
digest	0.6.23
ellipsis	0.3.0
fansi	0.4.1
farver	2.0.3
foreigns	0.8-80
ggplot2	3.2.1
glue	1.3.1
graphics	4.0.3
grDevices	4.0.3
grid	4.0.3
gtable	0.3.0
httr	1.4.1
jsonlite	1.6
KernSmooth	2.23-17
labeling	0.3
lattice	0.20-41
lazyeval	0.2.2
lifecycle	0.1.0
magrittr	1.5
MASS	7.3-53
Matrix	1.2-18
methods	4.0.3
mgcv	1.8-33

Library	Version
mime	0.8
munsell	0.5.0
nlme	3.4-149
nnet	7.3-14
openssl	1.4.1
parallel	4.0.3
pillar	1.4.3
pkgconfig	2.0.3
plyr	1.8.5
png	0.1-7
R6	2.4.1
RColorBrewer	1.1-2
Rcpp	1.0.3
reshape2	1.4.3
RJSONIO	1.3-1.4
rlang	0.4.4
Rook	1.1-1
rpart	4.1-15
Rserve	1.7-0
scales	1.1.0
spatial	7.3-12
splines	4.0.3
stats	4.0.3
stats4	4.0.3
stringi	1.4.5
stringr	1.4.0
survival	3.2-7
sys	3.3
tcltk	4.0.3
tibble	2.1.3
tools	4.0.3
utf8	1.1.4
utils	4.0.3
vctrs	0.2.2
viridisLite	0.3.0
withr	2.1.2

R 3.6 Libraries

This section lists the R 3.6 libraries that ship with ML Runtimes 2021.02.

Table 69: R 3.6 Libraries for Workbench

Library	Version
askpass	1.1
assertthat	0.2.1
base	3.6.3
bitops	1.0-6
boot	1.3-24
brew	1.0-6
Cairo	1.2-0
caTools	1.18.0
cdsw	2.1
class	7.3-15
cli	2.0.1
cluster	2.1.0
codetools	0.2-16
colorspace	1.4-1
compiler	3.6.3
crayon	1.3.4
curl	4.3
datasets	3.6.3
digest	0.6.23
ellipsis	0.3.0
fansi	0.4.1
farver	2.0.3
foreigns	0.8-75
ggplot2	3.2.1
glue	1.3.1
graphics	3.6.3
grDevices	3.6.3
grid	3.6.3
gtable	0.3.0
httr	1.4.1
jsonlite	1.6
KernSmooth	2.23-16
labeling	0.3
lattice	0.20-38
lazyeval	0.2.2
lifecycle	0.1.0
magrittr	1.5

Library	Version
MASS	7.3-51.5
Matrix	1.2-18
methods	3.6.3
mgcv	1.8-31
mime	0.8
munsell	0.5.0
nlme	3.4-144
nnet	7.3-12
openssl	1.4.1
parallel	3.6.3
pillar	1.4.3
pkgconfig	2.0.3
plyr	1.8.5
png	0.1-7
R6	2.4.1
RColorBrewer	1.1-2
Rcpp	1.0.3
reshape2	1.4.3
RJSONIO	1.3-1.4
rlang	0.4.4
Rook	1.1-1
rpart	4.1-15
Rserve	1.7-0
scales	1.1.0
spatial	7.3-11
splines	3.6.3
stats	3.6.3
stats4	3.6.3
stringi	1.4.5
stringr	1.4.0
survival	3.1-8
sys	3.3
tcltk	3.6.3
tibble	2.1.3
tools	3.6.3
utf8	1.1.4
utils	3.6.3
vctrs	0.2.2
viridisLite	0.3.0

Library	Version
withr	2.1.2

ML Runtimes 2020.11

This section lists the Python and R libraries that ship with ML Runtimes 2020.11.

All ML Runtimes 2020.11 contain NumPy 1.19.2 and Matpolotlib 3.1.2.

- Matplotlib - 3.1.2
- NumPy - 1.19.2 and the Python versions, which are 3.6.10, 3.7.9, and 3.8.3