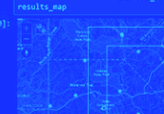


```
In [40]: # Visualize data clusters and noise
results_map = gis.map("Pittsburgh")
clusters_vdf.spatial_plot(map_widget=
    out_widget,
    noise_pdf.spatial_plot(map_widget=
        out_widget))
results_map
```



```
name = gis.sip_name.split(".sip")[0]
path_src = os.path.join(arcgis_dir, "sampled",
    gis.sip_name)
path_err = os.path.join(arcgis_dir, "sampled",
    gis_dir_name)
path_det = os.path.join(home_dir, gis.sip_name)
path_det = os.path.join(home_dir, gis_dir_name)

# gis has been copied/unsipped to home dir here
sh.delete(gis_sip_path_det)
sh.delete(gis_dir_path_det)
sh.delete(gis_dir_path_det)

# No file to home, strip it
sh.rm(gis_sip_path_det, gis_dir_path_det)
sh.rm(gis_sip_path_det, gis_dir_path_det, "-r")
sh.rm(home_dir)
sh.rm(home_dir)

# The output full path to /arcgis/home/unsipped
path_det = os.path.join(gis_dir_path_det, ".") # Add trailing slash
```

```
_dir_path_err = os.path.join(arcgis_dir,
    gis_dir_name)
_dir_path_det = os.path.join(home_dir,
    gis_dir_name)

If the gis has been copied/unsipped
os.path.exists(gis_sip_path_det):
    os.remove(gis_sip_path_det)
os.path.exists(gis_dir_path_det):
    sh.rm(gis_dir_path_det)

Copy the file to home, strip it
sh.rm(gis_sip_path_err, gis_dir_path_err)
sh.rm(gis_sip_path_err, gis_dir_path_err)
sh.rm(home_dir)
sh.rm(home_dir)
```

12.0 ArcGIS® Notebook Services on Kubernetes

Python Libraries Manifest

ArcGIS® Notebook Services on Kubernetes provides a spatially optimized Jupyter experience to create, share, and run data science, data management, and administrative scripts.

With these notebooks, you can perform analysis, automate workflows, and immediately visualize data and analysis results in a geographic context. It is an efficient, modern environment that combines code, real-time visualizations and maps, and data tools.

ArcGIS Notebooks features the ArcGIS Python libraries, ArcGIS API for Python, and ArcPy™. ArcGIS Notebooks also includes access to hundreds of open-source Python libraries and packages.

This publication provides a complete list of the Python libraries—including their versions—that are packaged in the ArcGIS Notebook Services on Kubernetes runtime version 12.0.

ArcGIS Notebook Services on Kubernetes Runtime

Python 3 Standard | Version 12.0

RELEASED

June 2025

TOTAL PACKAGES

653

SUPPORTED IN

ArcGIS Enterprise 11.5 on Kubernetes

Library Name	Version	Library Name	Version	Library Name	Version
_libgcc_mutex	0.1	aws-c-io	0.13.10	charset-normalizer	2.0.4
	5.1	aws-c-mqtt	0.7.13	click	8.1.8
_openmp_mutex	5.1	aws-c-s3	0.1.51	click-plugins	1.1.1
_py-xgboost-mutex	2.0	aws-c-sdkutils	0.1.6	cliff	3.8.0
_sysroot_linux-64_curr_repodata_hack	3	aws-checksums	0.1.13	cligj	0.7.2
abseil-cpp	20211102.0	aws-crt-cpp	0.18.16	cloudpathlib	0.16.0
absl-py	2.1.0	aws-sdk-cpp	1.10.55	cloudpickle	3.0.0
accelerate	0.33.0	azure-core	1.12.0	cmaes	0.8.2
addict	2.4.0	azure-storage-blob	12.8.0	cmd2	2.4.3
affine	2.3.0	babel	2.16.0	colorama	0.4.6
aiohappyeyeballs	2.4.4	beautifulsoup4	4.12.3	colorcet	3.1.0
aiohttp	3.9.5	binutils_impl_linux-64	2.38	coloredlogs	15.0.1
aiosignal	1.2.0	binutils_linux-64	2.38.0	colorlog	5.0.1
aisuite	0.1.7	bitsandbytes	0.43.3	colour	0.1.5
albumations	1.0.3	blas	1.0	comm	0.2.1
alembic	1.13.3	bleach	6.2.0	conda	24.3.0
altair	5.0.1	blinker	1.9.0	conda-content-trust	0.2.0
anaconda-anon-us-age	0.4.4	blosc	1.21.3	conda-libmam-ba-solver	25.3.0
annotated-types	0.6.0	bokeh	3.2.1	conda-package-handling	2.2.0
ansicolors	1.1.8	boltons	23.0.0	conda-pack-age-streaming	0.9.0
anthropic	0.30.1	boost	1.82.0	confection	0.1.4
anyio	4.6.2	boost-cpp	1.82.0	cons	0.4.6
anywidget	0.9.13	boto3	1.36.3	contourpy	1.3.1
aom	3.6.0	botocore	1.36.3	cpp-expected	1.1.0
arcgis	2.4.1	bottleneck	1.4.2	cryptography	42.0.5
arcgis-mapping	4.32.0	brotli	1.0.9	cuda-toolkit	11.8.0
arcgis-notebooks-extension	1.1.1	brotli-bin	1.0.9	cudnn	8.7.0.84
archspec	0.2.3	brotli-python	1.0.9	cumm	0.4.11
argon2-cffi	21.3.0	brunsli	0.1	cupti	11.8.0
argon2-cffi-bindings	21.2.0	bzip2	1.0.8	cycler	0.11.0
arrow-cpp	14.0.2	c-ares	1.19.1	cymem	2.0.6
arviz	0.20.0	c-blosc2	2.12.0	cyrus-sasl	2.1.28
asttokens	3.0.0	ca-certificates	2025.2.25	cython	3.0.11
astunparse	1.6.3	cached-property	1.5.2	cython-blis	0.7.9
async-lru	2.0.4	cachetools	5.5.1	cytoolz	1.0.1
atk-1.0	2.36.0	cairo	1.16.0	dask	2024.12.1
atomicwrites	1.4.0	catalogue	2.0.10	dask-core	2024.12.1
attrs	24.3.0	catboost	1.2.3	dask-expr	1.1.21
aws-c-auth	0.6.19	category_encoders	2.2.2	dask-glm	0.3.2
aws-c-cal	0.5.20	ccimport	0.4.2	dask-ml	2024.4.4
aws-c-common	0.8.5	certifi	2025.1.31	datasets	2.19.1
aws-c-compression	0.2.16	cffi	1.16.0	dav1d	1.2.1
aws-c-event-stream	0.2.15	cfitsio	3.470	dbus	1.13.18
aws-c-http	0.6.25	cftime	1.6.4	debugpy	1.8.11
		chardet	4.0.0		
		charls	2.2.0		

ArcGIS Notebook Services on Kubernetes Runtime

Python 3 Standard | Version 12.0

Library Name	Version	Library Name	Version	Library Name	Version
decorator	5.1.1	gcc_linux-64	11.2.0	importlib-metadata	8.5.0
defusedxml	0.7.1	gdal	3.8.3	importlib_metadata	4.2.4
descartes	1.1.0	gdk-pixbuf	2.42.10	8.5.0	0.18.2
detreg	1.0.0	geomet	1.0.0	iniconfig	1.1.1
dill	0.3.8	geos	3.10.6	inplace-abn	1.1.0
distributed	2024.12.1	geotiff	1.7.0	intel-openmp	2023.1.0
distro	1.8.0	gflags	2.2.2	ipykernel	6.29.5
dm-tree	0.1.7	giflib	5.2.2	ipyml	0.9.3
dtreeviz	1.3.7	glib	2.78.4	ipython	8.18.1
duckdb	1.2.1	glib-tools	2.78.4	ipython_genutils	0.2.0
einops	0.7.0	glog	0.5.0	ipywidgets	8.1.5
ensemble-boxes	1.0.8	gmp	6.3.0	isodate	0.6.0
entrypoints	0.4	gmpy2	2.2.1	jaraco.classes	3.2.1
et_xmlfile	1.1.0	gobject-introspection	1.78.1	jasper	4.2.4
etuples	0.3.9	google-auth	2.38.0	jedi	0.18.2
exceptiongroup	1.0.0rc9	google-auth-oauthlib	1.2.1	jeepney	0.7.1
executing	0.8.3	google-pasta	0.2.0	jinja2	3.1.6
expat	2.7.1	gputil	1.4.0	jiter	0.6.1
fairlearn	0.8.0	graphite2	1.3.14	jmespath	1.0.1
fastai	1.0.63	graphviz	8.1.0	joblib	1.4.2
fastprogress	0.2.3	greenlet	3.1.1	jpeg	9e
fasttext	0.9.2	groq	0.9.0	js2py	0.74
ffmpeg	7.0.2	grpc-cpp	1.48.2	json-c	0.16
filelock	3.16.1	grpcio	1.48.2	json5	0.9.25
fiona	1.9.5	gtk2	2.24.33	jsonpatch	1.33
fire	0.4.0	gts	0.7.6	jsonpointer	2.1
fmt	9.1.0	gxx_impl_linux-64	11.2.0	jsonschema	4.23.0
font-ttf-dejavu-sans-mono	2.37	gxx_linux-64	11.2.0	jsonschema-specifications	2023.7.1
font-ttf-inconsolata	2.001	h11	0.14.0	jupyter-lsp	2.2.5
font-ttf-source-code-pro	2.030	h3-py	3.7.6	jupyter_client	8.6.3
font-ttf-ubuntu	0.83	h5netcdf	1.2.0	jupyter_core	5.7.2
fontconfig	2.14.1	h5py	3.11.0	jupyter_events	0.12.0
fonts-anaconda	1	harfbuzz	4.3.0	jupyter_server	2.15.0
fonts-condo-eco-system	1	hdf4	4.2.13	jupyter_server_terminals	0.5.3
fonttools	4.55.3	hdf5	1.14.5	jupyterlab	4.2.5
freeglut	3.4.0	holoviews	1.20.1	jupyterlab_pygments	0.3.0
freetype	2.13.3	html5lib	1.1	jupyterlab_server	2.27.3
freexl	2.0.0	httpcore	1.0.2	jupyterlab_widgets	3.0.13
fribidi	1.0.10	httpx	0.27.0	jxrlib	1.1
frozenset	1.5.0	huggingface_hub	0.29.1	kealib	1.5.0
fsspec	2024.3.1	humanfriendly	10.0	keras	2.13.1
future	1.0.0	icu	73.1	kernel-headers_linux-64	3.10.0
gast	0.5.3	idna	3.4	keyring	24.3.1
gcc_impl_linux-64	11.2.0	imagecodecs	2023.1.23	kiwisolver	1.4.8
		imageio	2.37.0		
		imgaug	0.4.0		

ArcGIS Notebook Services on Kubernetes Runtime

Python 3 Standard | Version 12.0

Library Name	Version	Library Name	Version	Library Name	Version
krb5	1.20.1	libprotobuf	3.20.3	minizip	4.0.3
lame	3.100	libsvg	2.56.3	mistune	2.0.4
langcodes	3.3.0	libsodium	1.0.18	mkl	2023.1.0
lark	1.1.2	libsolv	0.7.30	mkl-service	2.4.0
laspy	1.7.1	libspatialindex	1.9.3	mkl_fft	1.3.11
lazy_loader	0.4	libspatialite	5.1.0	mkl_random	1.2.8
lcms2	2.16	libssh2	1.10.0	mljar-supervised	0.11.2
ld_impl_linux-64	2.38	libstdcxx-devel_linux-64	11.2.0	mmcv	2.0.1
leptonica	1.82.0	libstdcxx-ng	11.2.0	mmdet	3.1.0
lerc	3.0	libtheora	1.1.1	mmdet3d	1.2.0
libaec	1.1.3	libthrift	0.15.0	mmengine	0.8.5
libarchive	3.7.7	libtiff	4.5.1	mmsegmentation	1.1.2
libavif	0.11.1	libtool	2.4.7	more-itertools	10.3.0
libboost	1.82.0	libuuid	1.41.5	mpc	1.3.1
libbrotlicommon	1.0.9	libvorbis	1.3.7	mpfr	4.2.1
libbrotlidec	1.0.9	libvpx	1.13.1	mpi	1.0
libbrotlienc	1.0.9	libwebp	1.3.2	mpich	4.1.1
libclang	14.0.6	libwebp-base	1.3.2	mpmath	1.3.0
libclang13	14.0.6	libxcb	1.15	msgpack-python	1.0.3
libcurl	8.5.0	libxgb	1.15	msrest	0.6.21
libdeflate	1.17	libxgboost	2.1.1	multidict	6.1.0
libedit	3.1.20230828	libxml2	2.13.5	multipledispatch	0.6.0
libev	4.33	libxslt	1.1.41	multiprocess	0.70.15
libevent	2.1.12	libzip	1.8.0	munch	2.5.0
libffi	3.4.4	libzopfli	1.0.3	murmurhash	1.0.12
libgcc-devel_linux-64	11.2.0	lightgbm	4.6.0	nbclassic	1.1.0
libgcc-ng	11.2.0	linkify-it-py	2.0.0	nbclient	0.10.2
libgd	2.3.3	llvmlite	0.44.0	nbconvert-core	7.16.6
libgdal	3.8.3	loket	1.0.0	nbformat	5.10.4
libgfortran-ng	11.2.0	logical-unification	0.4.6	ncurses	6.4
libgfortran5	11.2.0	lxml	5.3.0	nest-asyncio	1.6.0
libglib	2.78.4	lz4	4.3.2	netcdf4	1.6.2
libglu	9.0.0	lz4-c	1.9.4	networkx	3.4.2
libgomp	11.2.0	magma-cuda118	2.6.1	neural-structured-learning	1.4.0
libiconv	1.16	mako	1.2.3	ninja	1.12.1
libjpeg-turbo	2.0.0	markdown	3.4.1	ninja-base	1.12.1
libllvm14	14.0.6	markdown-it-py	2.2.0	ninja_syntax	1.7.2
libmamba	2.0.5	markupsafe	3.0.2	nlohmann_json	3.11.2
libmambapy	2.0.5	matplotlib	3.9.4	nose	1.3.7
libnetcdf	4.9.2	matplotlib-base	3.9.4	notebook	7.2.2
libnghttp2	1.57.0	matplotlib-inline	0.1.7	notebook-shim	0.2.4
libogg	1.3.5	mdit-py-plugins	0.3.0	numba	0.61.0
libopencv	4.8.1	mdurl	0.1.0	numexpr	2.10.1
libopus	1.3.1	menuinst	2.0.2	numpy	1.26.4
libpng	1.6.39	metis	5.1.0	numpy-base	1.26.4
libpq	17.4	minikanren	1.0.3		

ArcGIS Notebook Services on Kubernetes Runtime

Python 3 Standard | Version 12.0

Library Name	Version	Library Name	Version	Library Name	Version
nvidia-ml-py3	7.352.0	protobuf	3.20.3	python-fastjson-schema	2.20.0
oauthlib	3.2.2	psutil	5.9.0	python-flatbuffers	23.5.26
onnx	1.13.1	psysgnal	0.11.0	python-graphviz	0.20.1
onnx-tf	1.9.0	ptyprocess	0.7.0	python-gssapi	1.8.1
onnxruntime	1.20.1	pure_eval	0.2.2	python-json-logger	3.2.1
openai	1.60.1	puremagic	1.15	python-sounddevice	0.4.4
opencv	4.8.1	py-boost	1.82.0	python-tzdata	2023.3
openh264	2.1.1	py-cpuinfo	9.0.0	python-xxhash	3.5.0
openjpeg	2.5.2	py-opencv	4.8.1	pytorch	2.0.1
openldap	2.6.4	py-xgboost	2.1.1	pytz	2024.1
openpyxl	3.1.5	pyarrow	14.0.2	pyviz_comms	3.0.2
openssl	3.0.16	pyasn1	0.4.8	pywavelets	1.8.0
opt-einsum	3.3.0	pyasn1-modules	0.2.8	pyyaml	6.0.2
optuna	3.0.4	pybind11	2.13.6	pyzmq	26.2.0
orc	1.7.4	pybind11-abi	4	rasterio	1.3.9
overrides	7.4.0	pybind11-global	2.13.6	rasterstats	0.19.0
packaging	23.2	pycocotools	2.0.7	re2	2022.04.01
pandas	2.2.3	pycosat	0.6.6	readline	8.2
pandocfilters	1.5.0	pycparser	2.21	referencing	0.30.2
panel	1.3.8	pydantic	2.10.6	regex	2024.11.6
pango	1.50.7	pydantic-core	2.27.2	reproc	14.2.4
papermill	2.6.0	pygments	2.18.0	reproc-cpp	14.2.4
param	2.2.0	pyjsparser	2.7.1	requests	2.31.0
parso	0.8.4	pyjwt	2.4.0	requests-gssapi	1.2.3
partd	1.4.2	pykerberos	1.2.1	requests-kerberos	0.14.0
patsy	1.0.1	pylerc	4.0	requests-oauthlib	2.0.0
pbr	5.6.0	pymc	5.20.1	requests-toolbelt	1.0.0
pccm	0.4.11	pymc-base	5.20.1	rfc3339-validator	0.1.4
pcre2	10.42	pyopenssl	25.0.0	rfc3986-validator	0.1.1
pexpect	4.8.0	yparsing	3.2.0	rich	13.9.4
pickleshare	0.7.5	pypdf	4.3.1	rpds-py	0.22.3
pillow	11.1.0	pypdf2	1.26.0	rsa	4.7.2
pip	23.3.1	pyperclip	1.8.2	rtree	1.0.1
pixman	0.40.0	pyproj	3.6.1	ruamel.yaml	0.17.21
platformdirs	3.10.0	pyquaternion	0.9.9	ruamel.yaml.clib	0.2.8
plotly	5.24.1	pyshp	2.3.1	s2n	1.3.27
pluggy	1.0.0	pysocks	1.7.1	s3transfer	0.11.2
portalocker	3.0.0	pypnogo	0.9.2	safetensors	0.5.3
portaudio	19.6.0	pytables	3.9.2	scikit-image	0.20.0
postgresl	17.4	pytensor	2.26.4	scikit-learn	1.6.1
prshed	3.0.6	pytensor-base	2.26.4	scikit-plot	0.3.12
prettytable	2.1.0	pytest	8.3.4	scipy	1.14.1
proj	9.3.1	python	3.11.11	seaborn	0.13.2
prometheus_client	0.21.1	python-dateutil	2.9.0post0	secretstorage	3.3.1
prompt-toolkit	3.0.47	python-duckdb	1.2.1	send2trash	1.8.2
propcache	0.3.1				

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Library Name	Version	Library Name	Version	Library Name	Version
sentencepiece	0.1.99	termcolor	2.1.0	websocket-client	1.8.0
setuptools	68.2.2	terminado	0.17.1	werkzeug	3.1.3
shap	0.46.0	terminaltables	3.1.0	wheel	0.41.2
shapely	2.0.6	tesseract	5.2.0	widetsnbextension	4.0.13
shellingham	1.5.0	tf-lite-model-maker	0.3.4	wordcloud	1.9.4
simdjson	3.10.1	tf-lite-support	0.4.4	wrapt	1.17.0
simplejson	3.19.2	thinc	8.2.2	xarray	2024.11.0
six	1.16.0	threadpoolctl	3.5.0	xarray-einstats	0.6.0
slicer	0.0.8	tifffile	2023.4.12	xerces-c	3.2.4
smart_open	5.2.1	tiledb	2.3.3	xgboost	2.1.1
snappy	1.2.1	timm	0.4.12	xlrd	2.0.1
sniffio	1.3.0	tinycss2	1.4.0	xlwt	1.3.0
snuggs	1.4.7	tk	8.6.14	xmltodict	0.14.2
sortedcontainers	2.4.0	tokenizers	0.21.0	xxhash	0.8.0
soupsieve	2.5	tomli	2.0.1	xyzservices	2022.9.0
spacy	3.7.2	toolz	1.0.0	xz	5.4.6
spacy-legacy	3.0.12	torch-cluster	1.6.3	yaml	0.2.5
spacy-loggers	1.0.4	torch-geometric	2.4.0	yaml-cpp	0.8.0
sparse	0.15.4	torch-scatter	2.1.2	yapf	0.40.2
spconv	2.3.6	torch-sparse	0.6.18	yarl	1.18.0
spdlog	1.11.0	torch-spline-conv	1.2.2	zeromq	4.3.5
sqlalchemy	2.0.37	torchvision	0.15.2	zfp	1.0.0
sqlite	3.45.3	tornado	6.4.2	zict	3.0.0
srsly	2.5.1	tqdm	4.65.0	zipp	3.21.0
stack_data	0.5.1	traitlets	5.14.3	zlib	1.2.13
statsmodels	0.14.4	transformers	4.47.0	zlib-ng	2.0.7
stevedore	5.1.0	trimesh	2.35.39	zstandard	0.19.0
sympy	1.13.3	truststore	0.8.0	zstd	1.5.5
sysroot_linux-64	2.17	typeguard	2.13.0		
tabulate	0.9.0	typer	0.9.0		
tbb	2021.8.0	typing-extensions	4.12.2		
tblib	1.7.0	typing_extensions	0.8.0		
tenacity	9.0.0	4.12.2	2022.9.0		
tensorboard	2.13.0	tzdata	2024a		
tensorboard-da- ta-server	0.7.0	tzlocal	5.2		
tensor- board-plugin-wit	1.6.0	uc-micro-py	1.0.1		
tensorboardx	2.6.2.2	ujson	5.10.0		
tensorflow	2.13.0	unicodedata2	15.1.0		
tensorflow-addons	0.22.0	urllib3	2.1.0		
tensorflow-estimator	2.13.0	utf8proc	2.6.1		
tensorflow-hub	0.16.1	wasabi	0.9.1		
tensorflow-model-op- timization	0.7.5	watchfiles	0.24.0		
tensorflow-proba- bility	0.20.1	wcwidth	0.2.5		
		weasel	0.3.4		
		webencodings	0.5.1		

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ArcGIS Notebook Services on Kubernetes Runtime

Python 3 Advanced | Version 12.0

RELEASED

June 2025

TOTAL PACKAGES

654

SUPPORTED IN

ArcGIS Enterprise 11.5 on Kubernetes

Library Name	Version	Library Name	Version	Library Name	Version
_libgcc_mutex	0.1	aws-c-io	0.13.10	charset-normalizer	2.0.4
_openmp_mutex	5.1	aws-c-mqtt	0.7.13	click	8.1.8
_py-xgboost-mutex	2.0	aws-c-s3	0.1.51	click-plugins	1.1.1
_sysroot_linux-64_curr_repodata_hack	3	aws-c-sdkutils	0.1.6	cliff	3.8.0
abseil-cpp	20211102.0	aws-checksums	0.1.13	cligj	0.7.2
absl-py	2.1.0	aws-crt-cpp	0.18.16	cloudpathlib	0.16.0
accelerate	0.33.0	aws-sdk-cpp	1.10.55	cloudpickle	3.0.0
addict	2.4.0	azure-core	1.12.0	cmaes	0.8.2
affine	2.3.0	azure-storage-blob	12.8.0	cmd2	2.4.3
aiohappyeyeballs	2.4.4	babel	2.16.0	colorama	0.4.6
aiohttp	3.9.5	beautifulsoup4	4.12.3	colorcet	3.1.0
aiosignal	1.2.0	binutils_impl_linux-64	2.38	coloredlogs	15.0.1
aisuite	0.1.7	binutils_linux-64	2.38.0	colorlog	5.0.1
albumentions	1.0.3	bitsandbytes	0.43.3	colour	0.1.5
alembic	1.13.3	blas	1.0	comm	0.2.1
altair	5.0.1	bleach	6.2.0	conda	24.3.0
anaconda-anon-usage	0.4.4	blinker	1.9.0	conda-content-trust	0.2.0
annotated-types	0.6.0	blosc	1.21.3	conda-libmamba-solver	25.3.0
ansicolors	1.1.8	bokeh	3.2.1	conda-package-handling	2.2.0
anthropic	0.30.1	boltons	23.0.0	conda-pack-age-streaming	0.9.0
anyio	4.6.2	boost	1.82.0	confection	0.1.4
anywidget	0.9.13	boost-cpp	1.82.0	cons	0.4.6
aom	3.6.0	boto3	1.36.3	contourpy	1.3.1
arcgis	2.4.1	botocore	1.36.3	cpp-expected	1.1.0
arcgis-mapping	4.32.0	bottleneck	1.4.2	cryptography	42.0.5
arcgis-notebooks-extension	1.1.1	brotli	1.0.9	cudatoolkit	11.8.0
arcgis-server-py3	11.5.0	brotli-bin	1.0.9	cudnn	8.7.0.84
archspec	0.2.3	brotli-python	1.0.9	cumm	0.4.11
argon2-cffi	21.3.0	brunsli	0.1	cupti	11.8.0
argon2-cffi-bindings	21.2.0	bzip2	1.0.8	cycler	0.11.0
arrow-cpp	14.0.2	c-ares	1.19.1	cymem	2.0.6
arviz	0.20.0	c-blosc2	2.12.0	cyrus-sasl	2.1.28
asttokens	3.0.0	ca-certificates	2025.2.25	cython	3.0.11
astunparse	1.6.3	cached-property	1.5.2	cython-blis	0.7.9
async-lru	2.0.4	cachetools	5.5.1	cytoolz	1.0.1
atk-1.0	2.36.0	cairo	1.16.0	dask	2024.12.1
atomicwrites	1.4.0	catalogue	2.0.10	dask-core	2024.12.1
attrs	24.3.0	catboost	1.2.3	dask-expr	1.1.21
aws-c-auth	0.6.19	category_encoders	2.2.2	dask-glm	0.3.2
aws-c-cal	0.5.20	ccimport	0.4.2	dask-ml	2024.4.4
aws-c-common	0.8.5	certifi	2025.1.31	datasets	2.19.1
aws-c-compression	0.2.16	cffi	1.16.0	dav1d	1.2.1
aws-c-event-stream	0.2.15	cfitsio	3.470	dbus	1.13.18
aws-c-http	0.6.25	cftime	1.6.4	debugpy	1.8.11
		chardet	4.0.0		
		charls	2.2.0		

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Library Name	Version	Library Name	Version	Library Name	Version
decorator	5.1.1	gcc_linux-64	11.2.0	importlib-metadata	8.5.0
defusedxml	0.7.1	gdal	3.8.3	importlib_metadata	3.2.1
descartes	1.1.0	gdk-pixbuf	2.42.10	8.5.0	4.2.4
detreg	1.0.0	geomet	1.0.0	iniconfig	1.1.1
dill	0.3.8	geos	3.10.6	inplace-abn	1.1.0
distributed	2024.12.1	geotiff	1.7.0	intel-openmp	2023.1.0
distro	1.8.0	gflags	2.2.2	ipykernel	6.29.5
dm-tree	0.1.7	giflib	5.2.2	ipyml	0.9.3
dtreeviz	1.3.7	glib	2.78.4	ipython	8.18.1
duckdb	1.2.1	glib-tools	2.78.4	ipython_genutils	0.2.0
einops	0.7.0	glog	0.5.0	ipywidgets	8.1.5
ensemble-boxes	1.0.8	gmp	6.3.0	isodate	0.6.0
entrypoints	0.4	gmpy2	2.2.1	jaraco.classes	3.2.1
et_xmlfile	1.1.0	gobject-introspection	1.78.1	jasper	4.2.4
etuples	0.3.9	google-auth	2.38.0	jedi	0.18.2
exceptiongroup	1.0.0rc9	google-auth-oauthlib	1.2.1	jeepney	0.7.1
executing	0.8.3	google-pasta	0.2.0	jinja2	3.1.6
expat	2.7.1	gputil	1.4.0	jiter	0.6.1
fairlearn	0.8.0	graphite2	1.3.14	jmespath	1.0.1
fastai	1.0.63	graphviz	8.1.0	joblib	1.4.2
fastprogress	0.2.3	greenlet	3.1.1	jpeg	9e
fasttext	0.9.2	groq	0.9.0	js2py	0.74
ffmpeg	7.0.2	grpc-cpp	1.48.2	json-c	0.16
filelock	3.16.1	grpcio	1.48.2	json5	0.9.25
fiona	1.9.5	gtk2	2.24.33	jsonpatch	1.33
fire	0.4.0	gts	0.7.6	jsonpointer	2.1
fmt	9.1.0	gxx_impl_linux-64	11.2.0	jsonschema	4.23.0
font-ttf-dejavu-sans-mono	2.37	gxx_linux-64	11.2.0	jsonschema-specifications	2023.7.1
font-ttf-inconsolata	2.001	h11	0.14.0	jupyter-lsp	2.2.5
font-ttf-source-code-pro	2.030	h3-py	3.7.6	jupyter_client	8.6.3
font-ttf-ubuntu	0.83	h5netcdf	1.2.0	jupyter_core	5.7.2
fontconfig	2.14.1	h5py	3.11.0	jupyter_events	0.12.0
fonts-anaconda	1	harfbuzz	4.3.0	jupyter_server	2.15.0
fonts-conda-ecosystem	1	hdf4	4.2.13	jupyter_server_terminals	0.5.3
fonttools	4.55.3	hdf5	1.14.5	jupyterlab	4.2.5
freelut	3.4.0	holoviews	1.20.1	jupyterlab_pygments	0.3.0
freetype	2.13.3	html5lib	1.1	jupyterlab_server	2.27.3
freexl	2.0.0	httpcore	1.0.2	jupyterlab_widgets	3.0.13
fribidi	1.0.10	httpx	0.27.0	jxrlib	1.1
frozenlist	1.5.0	huggingface_hub	0.29.1	kealib	1.5.0
fsspec	2024.3.1	humanfriendly	10.0	keras	2.13.1
future	1.0.0	icu	73.1	kernel-headers_linux-64	3.10.0
gast	0.5.3	idna	3.4	keyring	24.3.1
gcc_impl_linux-64	11.2.0	imagecodecs	2023.1.23	kiwisolver	1.4.8
		imageio	2.37.0		
		imgaug	0.4.0		

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Library Name	Version	Library Name	Version	Library Name	Version
krb5	1.20.1	libprotobuf	3.20.3	minizip	4.0.3
lame	3.100	libsvg	2.56.3	mistune	2.0.4
langcodes	3.3.0	libsodium	1.0.18	mkl	2023.1.0
lark	1.1.2	libsolv	0.7.30	mkl-service	2.4.0
laspy	1.7.1	libspatialindex	1.9.3	mkl_fft	1.3.11
lazy_loader	0.4	libspatialite	5.1.0	mkl_random	1.2.8
lcms2	2.16	libssh2	1.10.0	mljar-supervised	0.11.2
ld_impl_linux-64	2.38	libstdcxx-devel_li-nux-64	11.2.0	mmcv	2.0.1
leptonica	1.82.0	libstdcxx-ng	11.2.0	mmdet	3.1.0
lerc	3.0	libtheora	1.1.1	mmdet3d	1.2.0
libaec	1.1.3	libthrift	0.15.0	mmengine	0.8.5
libarchive	3.7.7	libtiff	4.5.1	mmsegmentation	1.1.2
libavif	0.11.1	libtool	2.4.7	more-itertools	10.3.0
libboost	1.82.0	libuuid	1.41.5	mpc	1.3.1
libbrotlicommon	1.0.9	libvorbis	1.3.7	mpfr	4.2.1
libbrotlidec	1.0.9	libvpx	1.13.1	mpi	1.0
libbrotlienc	1.0.9	libwebp	1.3.2	mpich	4.1.1
libclang	14.0.6	libwebp-base	1.3.2	mpmath	1.3.0
libclang13	14.0.6	libxcb	1.15	msgpack-python	1.0.3
libcurl	8.5.0	libxgb	1.15	msrest	0.6.21
libdeflate	1.17	libxgboost	2.1.1	multidict	6.1.0
libedit	3.1.20230828	libxml2	2.13.5	multipledispatch	0.6.0
libev	4.33	libxslt	1.1.41	multiprocess	0.70.15
libevent	2.1.12	libzip	1.8.0	munch	2.5.0
libffi	3.4.4	libzopfli	1.0.3	murmurhash	1.0.12
libgcc-devel_linux-64	11.2.0	lightgbm	4.6.0	nbclassic	1.1.0
libgcc-ng	11.2.0	linkify-it-py	2.0.0	nbclient	0.10.2
libgd	2.3.3	llvmlite	0.44.0	nbconvert-core	7.16.6
libgdal	3.8.3	loket	1.0.0	nbformat	5.10.4
libgfortran-ng	11.2.0	logical-unification	0.4.6	ncurses	6.4
libgfortran5	11.2.0	lxml	5.3.0	nest-asyncio	1.6.0
libglib	2.78.4	lz4	4.3.2	netcdf4	1.6.2
libglu	9.0.0	lz4-c	1.9.4	networkx	3.4.2
libgomp	11.2.0	magma-cuda118	2.6.1	neural-structured-learning	1.4.0
libiconv	1.16	mako	1.2.3	ninja	1.12.1
libjpeg-turbo	2.0.0	markdown	3.4.1	ninja-base	1.12.1
libllvm14	14.0.6	markdown-it-py	2.2.0	ninja_syntax	1.7.2
libmamba	2.0.5	markupsafe	3.0.2	nlohmann_json	3.11.2
libmambapy	2.0.5	matplotlib	3.9.4	nose	1.3.7
libnetcdf	4.9.2	matplotlib-base	3.9.4	notebook	7.2.2
libnghttp2	1.57.0	matplotlib-inline	0.1.7	notebook-shim	0.2.4
libogg	1.3.5	mdit-py-plugins	0.3.0	numba	0.61.0
libopencv	4.8.1	mdurl	0.1.0	numexpr	2.10.1
libopus	1.3.1	menuinst	2.0.2	numpy	1.26.4
libpng	1.6.39	metis	5.1.0	numpy-base	1.26.4
libpq	17.4	minikanren	1.0.3		

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Library Name	Version	Library Name	Version	Library Name	Version
nvidia-ml-py3	7.352.0	protobuf	3.20.3	python-fastjsonschema	2.20.0
oauthlib	3.2.2	psutil	5.9.0	python-flatbuffers	23.5.26
onnx	1.13.1	psysgnal	0.11.0	python-graphviz	0.20.1
onnx-tf	1.9.0	ptyprocess	0.7.0	python-gssapi	1.8.1
onnxruntime	1.20.1	pure_eval	0.2.2	python-json-logger	3.2.1
openai	1.60.1	puremagic	1.15	python-sounddevice	0.4.4
opencv	4.8.1	py-boost	1.82.0	python-tzdata	2023.3
openh264	2.1.1	py-cpuinfo	9.0.0	python-xxhash	3.5.0
openjpeg	2.5.2	py-opencv	4.8.1	pytorch	2.0.1
openldap	2.6.4	py-xgboost	2.1.1	pytz	2024.1
openpyxl	3.1.5	pyarrow	14.0.2	pyviz_comms	3.0.2
openssl	3.0.16	pyasn1	0.4.8	pywavelets	1.8.0
opt-einsum	3.3.0	pyasn1-modules	0.2.8	pyyaml	6.0.2
optuna	3.0.4	pybind11	2.13.6	pyzmq	26.2.0
orc	1.7.4	pybind11-abi	4	rasterio	1.3.9
overrides	7.4.0	pybind11-global	2.13.6	rasterstats	0.19.0
packaging	23.2	pycocotools	2.0.7	re2	2022.04.01
pandas	2.2.3	pycosat	0.6.6	readline	8.2
pandocfilters	1.5.0	pycparser	2.21	referencing	0.30.2
panel	1.3.8	pydantic	2.10.6	regex	2024.11.6
pango	1.50.7	pydantic-core	2.27.2	reproc	14.2.4
papermill	2.6.0	pygments	2.18.0	reproc-cpp	14.2.4
param	2.2.0	pyjsparser	2.7.1	requests	2.31.0
parso	0.8.4	pyjwt	2.4.0	requests-gssapi	1.2.3
partd	1.4.2	pykerberos	1.2.1	requests-kerberos	0.14.0
patsy	1.0.1	pylerc	4.0	requests-oauthlib	2.0.0
pbr	5.6.0	pymc	5.20.1	requests-toolbelt	1.0.0
pccm	0.4.11	pymc-base	5.20.1	rfc3339-validator	0.1.4
pcre2	10.42	pyopenssl	25.0.0	rfc3986-validator	0.1.1
pexpect	4.8.0	yparsing	3.2.0	rich	13.9.4
pickleshare	0.7.5	pypdf	4.3.1	rpds-py	0.22.3
pillow	11.1.0	pypdf2	1.26.0	rsa	4.7.2
pip	23.3.1	pyperclip	1.8.2	rtree	1.0.1
pixman	0.40.0	pyproj	3.6.1	ruamel.yaml	0.17.21
platformdirs	3.10.0	pyquaternion	0.9.9	ruamel.yaml.clib	0.2.8
plotly	5.24.1	pyshp	2.3.1	s2n	1.3.27
pluggy	1.0.0	pysocks	1.7.1	s3transfer	0.11.2
portalocker	3.0.0	pypnogo	0.9.2	safetensors	0.5.3
portaudio	19.6.0	pytables	3.9.2	scikit-image	0.20.0
postgresl	17.4	pytensor	2.26.4	scikit-learn	1.6.1
prshed	3.0.6	pytensor-base	2.26.4	scikit-plot	0.3.12
prettytable	2.1.0	pytest	8.3.4	scipy	1.14.1
proj	9.3.1	python	3.11.11	seaborn	0.13.2
prometheus_client	0.21.1	python-dateutil	2.9.0post0	secretstorage	3.3.1
prompt-toolkit	3.0.47	python-duckdb	1.2.1	send2trash	1.8.2
propcache	0.3.1				

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Library Name	Version	Library Name	Version	Library Name	Version
sentencepiece	0.1.99	termcolor	2.1.0	webencodings	0.5.1
setuptools	68.2.2	terminado	0.17.1	websocket-client	1.8.0
shap	0.46.0	terminaltables	3.1.0	werkzeug	3.1.3
shapely	2.0.6	tesseract	5.2.0	wheel	0.41.2
shellingham	1.5.0	tf-lite-model-maker	0.3.4	widgetsnbextension	4.0.13
simdjson	3.10.1	tf-lite-support	0.4.4	wordcloud	1.9.4
simplejson	3.19.2	thinc	8.2.2	wrapt	1.17.0
six	1.16.0	threadpoolctl	3.5.0	xarray	2024.11.0
slicer	0.0.8	tifffile	2023.4.12	xarray-einstats	0.6.0
smart_open	5.2.1	tiledb	2.3.3	xerces-c	3.2.4
snappy	1.2.1	timm	0.4.12	xgboost	2.1.1
sniffio	1.3.0	tinycss2	1.4.0	xlrd	2.0.1
snuggs	1.4.7	tk	8.6.14	xlwt	1.3.0
sortedcontainers	2.4.0	tokenizers	0.21.0	xmldict	0.14.2
soupsieve	2.5	tomli	2.0.1	xxhash	0.8.0
spacy	3.7.2	toolz	1.0.0	xyzservices	2022.9.0
spacy-legacy	3.0.12	torch-cluster	1.6.3	xz	5.4.6
spacy-loggers	1.0.4	torch-geometric	2.4.0	yaml	0.2.5
sparse	0.15.4	torch-scatter	2.1.2	yaml-cpp	0.8.0
spconv	2.3.6	torch-sparse	0.6.18	yapf	0.40.2
spdlog	1.11.0	torch-spline-conv	1.2.2	yarl	1.18.0
sqlalchemy	2.0.37	torchvision	0.15.2	zeromq	4.3.5
sqlite	3.45.3	tornado	6.4.2	zfp	1.0.0
srsly	2.5.1	tqdm	4.65.0	zict	3.0.0
stack_data	0.5.1	traitlets	5.14.3	zipp	3.21.0
statsmodels	0.14.4	transformers	4.47.0	zlib	1.2.13
stevedore	5.1.0	trimesh	2.35.39	zlib-ng	2.0.7
sympy	1.13.3	truststore	0.8.0	zstandard	0.19.0
sysroot_linux-64	2.17	typeguard	2.13.0	zstd	1.5.5
tabulate	0.9.0	typer	0.9.0		
tbb	2021.8.0	typing-extensions	4.12.2		
tblib	1.7.0	typing_extensions	0.13.0		
tenacity	9.0.0	4.12.2	0.8.0		
tensorboard	2.13.0	tzdata	2024a		
tensorboard-data-server	0.7.0	tzlocal	5.2		
tensorboard-plugin-wit	1.6.0	uc-micro-py	1.0.1		
tensorboardx	2.6.2.2	ujson	5.10.0		
tensorflow	2.13.0	unicodedata2	15.1.0		
tensorflow-addons	0.22.0	urllib3	2.1.0		
tensorflow-estimator	2.13.0	utf8proc	2.6.1		
tensorflow-hub	0.16.1	wasabi	0.9.1		
tensorflow-model-optimization	0.7.5	watchfiles	0.24.0		
tensorflow-probability	0.20.1	wcwidth	0.2.5		
		weasel	0.3.4		