

パッケージをインストール

pip リスト：

- accelerate, 0.19.0
- adb-enhanced, 2.5.24
- aiofiles, 24.1.0
- aiohttp, 3.8.4
- aiosignal, 1.3.1
- alabaster, 0.7.12
- alembic, 1.13.1
- aliyun-python-sdk-core, 2.16.0
- aliyun-python-sdk-ecs, 4.24.80
- aliyunsdkcore, 1.0.3
- anaconda-client, 1.11.2
- anaconda-navigator, 2.4.0
- anaconda-project, 0.11.1
- aniso8601, 9.0.1
- annotated-types, 0.7.0
- anthropic, 0.28.0
- anyio, 3.5.0
- appdirs, 1.4.4
- applaunchservices, 0.3.0
- appnope, 0.1.2
- appscript, 1.1.2
- argon2-cffi, 21.3.0
- argon2-cffi-bindings, 21.2.0
- arrow, 1.2.3
- asgiref, 3.8.1
- astroid, 2.14.2
- astropy, 5.1
- asttokens, 2.0.5
- async-timeout, 4.0.3
- atomicwrites, 1.4.0
- attrs, 24.3.0
- Automat, 20.2.0
- autopep8, 1.6.0
- azure-cognitiveservices-speech, 1.41.1
- azure-core, 1.32.0
- azure-identity, 1.19.0

- Babel, 2.11.0
- backcall, 0.2.0
- backoff, 2.2.1
- backports.functools-lru-cache, 1.6.4
- backports.tempfile, 1.0
- backports.weakref, 1.0.post1
- bcrypt, 4.1.3
- beautifulsoup4, 4.11.1
- binaryornot, 0.4.4
- bitsandbytes, 0.39.0
- black, 22.6.0
- bleach, 4.1.0
- blis, 0.7.9
- blobfile, 3.0.0
- bokeh, 2.4.3
- boltons, 23.0.0
- boto3, 1.34.122
- botocore, 1.34.122
- Bottleneck, 1.3.5
- brotlipy, 0.7.0
- bs4, 0.0.2
- build, 1.2.1
- cachetools, 5.3.3
- catalogue, 2.0.7
- certifi, 2024.12.14
- cffi, 1.15.1
- chardet, 4.0.0
- charset-normalizer, 3.4.1
- chroma-hnswlib, 0.7.3
- chromadb, 0.5.0
- ci-info, 0.3.0
- cleancode, 0.1
- click, 8.1.3
- clickhouse-connect, 0.5.25
- cloudpickle, 2.0.0
- clyent, 1.2.2
- colorama, 0.4.6
- colorcet, 3.0.1
- coloredlogs, 15.0.1
- comm, 0.1.2

- commonmark, 0.9.1
- concurrent-log-handler, 0.9.25
- conda, 23.3.1
- conda-build, 3.24.0
- conda-content-trust, 0.1.3
- conda-pack, 0.6.0
- conda-package-handling, 2.0.2
- conda_package_streaming, 0.7.0
- conda-repo-cli, 1.0.41
- conda-token, 0.4.0
- conda-verify, 3.4.2
- confection, 0.0.4
- configobj, 5.0.8
- configparser, 7.1.0
- constantly, 15.1.0
- contourpy, 1.0.5
- cookiecutter, 1.7.3
- cryptography, 39.0.1
- cssselect, 1.1.0
- cyclcr, 0.11.0
- cymem, 2.0.6
- cytoolz, 0.12.0
- dask, 2022.7.0
- dataclasses, 0.8
- dataclasses-json, 0.5.7
- datasets, 3.2.0
- datashader, 0.14.4
- datashape, 0.5.4
- debugpy, 1.5.1
- decorator, 5.1.1
- defusedxml, 0.7.1
- Delorean, 1.0.0
- Deprecated, 1.2.14
- diff-match-patch, 20200713
- dill, 0.3.8
- distributed, 2022.7.0
- distro, 1.9.0
- dnslib, 0.9.25
- dnspython, 2.7.0
- docopt, 0.6.2

- docstring-to-markdown, 0.11
- docutils, 0.18.1
- duckdb, 0.8.0
- entrypoints, 0.4
- et-xmlfile, 1.1.0
- etelemetry, 0.3.1
- eval_type_backport, 0.2.2
- exceptiongroup, 1.2.2
- executing, 0.8.3
- fabric, 3.2.2
- fairscale, 0.4.13
- faiss-cpu, 1.7.4
- Faker, 21.0.0
- fastapi, 0.96.0
- fastjsonschema, 2.16.2
- filelock, 3.9.0
- fire, 0.5.0
- fitz, 0.0.1.dev2
- flake8, 6.0.0
- Flask, 2.1.2
- Flask-Cors, 3.0.10
- Flask-JWT-Extended, 4.4.1
- Flask-Migrate, 4.0.7
- flask-restx, 0.5.1
- Flask-SQLAlchemy, 2.5.1
- flatbuffers, 24.3.25
- flit_core, 3.6.0
- fonttools, 4.25.0
- frontend, 0.0.3
- frontmatter, 3.0.8
- frozenlist, 1.3.3
- fsspec, 2024.5.0
- future, 0.18.3
- gensim, 4.3.0
- getbook, 0.3
- getmac, 0.9.4
- gitdb, 4.0.12
- GitPython, 3.1.44
- glob2, 0.7
- gmpy2, 2.1.2

- google-api-core, 2.24.0
- google-auth, 2.29.0
- google-cloud, 0.34.0
- google-cloud-core, 2.4.1
- google-cloud-speech, 2.30.0
- google-cloud-storage, 2.19.0
- google-cloud-texttospeech, 2.23.0
- google-crc32c, 1.6.0
- google-resumable-media, 2.7.2
- googleapis-common-protos, 1.63.0
- greenlet, 2.0.1
- grpcio, 1.64.0
- grpcio-status, 1.62.3
- gunicorn, 20.1.0
- h11, 0.14.0
- h5py, 3.7.0
- hanlp, 2.1.0b54
- hanlp-common, 0.0.19
- hanlp-downloader, 0.0.25
- hanlp-trie, 0.0.5
- hcloud, 2.3.0
- HeapDict, 1.0.1
- hnswlib, 0.7.0
- holoviews, 1.15.4
- html5lib, 1.1
- httpcore, 1.0.5
- httplib2, 0.22.0
- httptools, 0.5.0
- httpx, 0.27.0
- huggingface-hub, 0.23.1
- humanfriendly, 10.0
- humanize, 4.9.0
- hvplot, 0.8.2
- hyperlink, 21.0.0
- idna, 3.10
- imagecodecs, 2021.8.26
- imageio, 2.26.0
- imagesize, 1.4.1
- imbalanced-learn, 0.10.1
- importlib-metadata, 5.1.0

- importlib-resources, 5.10.1
- incremental, 21.3.0
- inflection, 0.5.1
- iniconfig, 1.1.1
- InstructorEmbedding, 1.0.1
- intake, 0.6.7
- intervaltree, 3.1.0
- invoke, 2.2.0
- ipykernel, 6.19.2
- ipython, 8.10.0
- ipython-genutils, 0.2.0
- isodate, 0.6.1
- isort, 5.9.3
- itemadapter, 0.3.0
- itemloaders, 1.0.4
- itsdangerous, 2.1.2
- jedi, 0.18.1
- jellyfish, 0.9.0
- Jinja2, 3.0.3
- jinja2-time, 0.2.0
- jiter, 0.4.1
- jmespath, 0.10.0
- joblib, 1.1.1
- jproperties, 2.1.1
- json5, 0.9.6
- jsonpatch, 1.33
- jsonpath-python, 1.0.6
- jsonpointer, 2.1
- jsonschema, 4.17.3
- jupyter_client, 7.3.4
- jupyter_core, 5.2.0
- jupyter-server, 1.23.4
- jupyterlab, 3.5.3
- jupyterlab-pygments, 0.1.2
- jupyterlab_server, 2.19.0
- keyring, 23.4.0
- kiwisolver, 1.4.4
- kubernetes, 29.0.0
- langchain, 0.2.0
- langchain-chroma, 0.1.1

- langchain-community, 0.2.0
- langchain-core, 0.2.1
- langchain-openai, 0.1.7
- langchain-text-splitters, 0.2.0
- langchainhub, 0.1.15
- langcodes, 3.3.0
- langsmith, 0.1.62
- lazy-object-proxy, 1.6.0
- libarchive-c, 2.9
- llama, 0.0.1
- llama-cpp-python, 0.1.48
- llama3, 0.0.1
- llvmlite, 0.39.1
- locket, 1.0.0
- logstash-formatter, 0.5.17
- looseversion, 1.3.0
- lxml, 4.9.1
- lz4, 3.1.3
- Mako, 1.3.5
- Markdown, 3.4.1
- MarkupSafe, 2.1.1
- marshmallow, 3.19.0
- marshmallow-enum, 1.5.1
- matplotlib, 3.7.0
- matplotlib-inline, 0.1.6
- mccabe, 0.7.0
- mistralai, 1.4.0
- mistune, 0.8.4
- mmh3, 4.1.0
- mock, 4.0.3
- monotonic, 1.6
- mpmath, 1.2.1
- msal, 1.31.1
- msal-extensions, 1.2.0
- msgpack, 1.1.0
- msrest, 0.7.1
- multidict, 6.0.4
- multipledispatch, 0.6.0
- multiprocessing, 0.70.16
- munkres, 1.1.4

- murmurhash, 1.0.7
- mypy-extensions, 0.4.3
- navigator-updater, 0.3.0
- nbclassic, 0.5.2
- nbclient, 0.5.13
- nbconvert, 6.5.4
- nbformat, 5.9.2
- nest-asyncio, 1.5.6
- networkx, 2.8.4
- nibabel, 5.2.1
- nipy, 1.8.6
- nltk, 3.7
- notebook, 6.5.2
- notebook_shim, 0.2.2
- numba, 0.56.4
- numexpr, 2.8.4
- numpy, 1.23.5
- numpydoc, 1.5.0
- oauthlib, 3.2.2
- onnxruntime, 1.18.0
- openai, 1.30.1
- openapi-schema-pydantic, 1.2.4
- openpyxl, 3.0.10
- opentelemetry-api, 1.24.0
- opentelemetry-exporter-otlp-proto-common, 1.24.0
- opentelemetry-exporter-otlp-proto-grpc, 1.1.0
- opentelemetry-instrumentation, 0.45b0
- opentelemetry-instrumentation-asgi, 0.45b0
- opentelemetry-instrumentation-fastapi, 0.45b0
- opentelemetry-proto, 1.24.0
- opentelemetry-sdk, 1.24.0
- opentelemetry-semantic-conventions, 0.45b0
- opentelemetry-util-http, 0.45b0
- orjson, 3.10.3
- outcome, 1.3.0.post0
- overrides, 7.7.0
- packaging, 22.0
- pandas, 2.2.0
- pandocfilters, 1.5.0
- panel, 0.14.3

- param, 1.12.3
- paramiko, 3.4.0
- parsel, 1.6.0
- parso, 0.8.3
- partd, 1.2.0
- pathlib, 1.0.1
- pathspec, 0.10.3
- pathy, 0.10.2
- patsy, 0.5.3
- pdf2image, 1.17.0
- pdfminer.six, 20221105
- pep8, 1.7.1
- pexpect, 4.8.0
- phrasetree, 0.0.8
- pickleshare, 0.7.5
- Pillow, 9.4.0
- pip, 22.3.1
- pkginfo, 1.9.6
- pyiutil-resolve-name, 1.3.10
- platformdirs, 2.5.2
- plotly, 5.9.0
- pluggy, 1.0.0
- ply, 3.11
- pooch, 1.4.0
- portalocker, 2.10.0
- posthog, 3.0.1
- poyo, 0.5.0
- preshed, 3.0.6
- prometheus-client, 0.14.1
- prompt-toolkit, 3.0.36
- Protego, 0.1.16
- proto-plus, 1.25.0
- protobuf, 4.25.3
- prov, 2.0.1
- psutil, 5.9.0
- ptyprocess, 0.7.0
- pure-eval, 0.2.2
- py, 1.11.0
- pyarrow, 19.0.0
- pyasn1, 0.4.8

- pyasn1-modules, 0.2.8
- pycodestyle, 2.10.0
- pycosat, 0.6.4
- pycparser, 2.21
- pycrypto, 2.6.1
- pycryptodomex, 3.21.0
- pyct, 0.5.0
- pycurl, 7.45.1
- pydantic, 2.10.6
- pydantic_core, 2.27.2
- PyDispatcher, 2.0.5
- pydo, 0.7.0
- pydocstyle, 6.3.0
- pydot, 3.0.1
- pydub, 0.25.1
- pyerfa, 2.0.0
- pyflakes, 3.0.1
- Pygments, 2.11.2
- PyHamcrest, 2.0.2
- PyJWT, 2.6.0
- pylint, 2.16.2
- pylint-venv, 2.3.0
- pyls-spyder, 0.4.0
- PyMuPDF, 1.24.9
- PyMuPDFb, 1.24.9
- PyNaCl, 1.5.0
- pynvml, 11.5.0
- pyobjc-core, 9.0
- pyobjc-framework-Cocoa, 9.0
- pyobjc-framework-CoreServices, 9.0
- pyobjc-framework-FSEvents, 9.0
- pyodbc, 4.0.34
- pyOpenSSL, 23.0.0
- pyparsing, 3.0.9
- PyPika, 0.48.9
- pyproject_hooks, 1.1.0
- PyQt5-sip, 12.11.0
- pyrsistent, 0.19.2
- PySocks, 1.7.1
- pytest, 7.1.2

- python-dateutil, 2.8.2
- python-dotenv, 0.19.2
- python-frontmatter, 1.1.0
- python-lsp-black, 1.2.1
- python-lsp-jsonrpc, 1.0.0
- python-lsp-server, 1.7.1
- python-slugify, 5.0.2
- python-snappy, 0.6.1
- pytoolconfig, 1.2.5
- pytz, 2022.6
- pyviz-comms, 2.0.2
- PyWavelets, 1.4.1
- pyxnat, 1.6.2
- PyYAML, 5.1
- pyzmq, 23.2.0
- QDarkStyle, 3.0.2
- qstylizer, 0.2.2
- QtAwesome, 1.2.2
- qtconsole, 5.4.0
- QtPy, 2.2.0
- queuelib, 1.5.0
- rdflib, 6.3.2
- redis, 5.0.7
- regex, 2024.11.6
- requests, 2.32.3
- requests-file, 1.5.1
- requests-mock, 1.10.0
- requests-oauthlib, 2.0.0
- requests-toolbelt, 0.9.1
- rich, 12.6.0
- rope, 1.7.0
- rq, 1.16.2
- rsa, 4.9
- Rtree, 1.0.1
- ruamel.yaml, 0.18.10
- ruamel.yaml.clib, 0.2.12
- ruamel-yaml-conda, 0.17.21
- s3transfer, 0.10.1
- scikit-image, 0.19.3
- scikit-learn, 1.2.1

- `scipy`, 1.10.0
- `Scrapy`, 2.8.0
- `seaborn`, 0.12.1
- `selenium`, 4.27.1
- `Send2Trash`, 1.8.0
- `sentence-transformers`, 2.2.2
- `sentencepiece`, 0.1.99
- `service-identity`, 18.1.0
- `setuptools`, 65.6.3
- `shellingham`, 1.5.1
- `simplejson`, 3.19.2
- `sip`, 6.6.2
- `six`, 1.16.0
- `smart-open`, 5.2.1
- `smmap`, 5.0.2