Swarm Intelligence Cup Beta - Submission Guidelines

Lab42[*]

Version 0.1

Contents

Introduction

Participants in the Swarm Intelligence Cup are tasked with creating a behavior script for a swarm of agents. Each script must contain a main function that executes whenever an agent takes its turn. The scripts will compete against each other using the `sic42` package to determine the most effective swarm behavior.

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[*]`https://lab42.global/sic/`

Please consult the documentation [1] of the `sic42` package to get started and for more information about the agent input, output and the possible actions.

1 Naming Conventions

- Each script should be named after the team's registered name. This name will be used to identify your team and your script in the competition.

2 `sic42` Package Version

- Scripts must be compatible with the newest version of the `sic42` package that was available on the Sunday before the next training or competition week.

- The package version used for validation will be the one available on the preceding Sunday. For example, if version 0.3.0 is the latest on Sunday, your script must be compatible with version 0.3.0 for submissions in the following week.

3 Python Package Usage

- You can find a list of the available packages in App. A. In short, those are the packages available in the Kaggle Python Docker image [2] – basically any pre-installed package you are using on Kaggle should be in this list.

- If additional packages are needed, a request for inclusion must be submitted and approved.

4 File Writing Restrictions

- Scripts are only permitted to write to the `agent_output.json` file.

- Direct communication between agents or circumventing memory restrictions by writing to files other than `agent_output.json` is strictly prohibited.

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[1] https://sic.lab42.global

[2] The image can be found here: https://github.com/Kaggle/docker-python. On our GitHub repository you will also find a development container that can be used to set up the same environment we use for our evaulation (https://github.com/lab42-global/sic42).

5   Tournament Infrastructure

- The tournament will be conducted on a Google N1-standard-4 series VM with 4 vCPU's and 15GB RAM [3]. There will be no GPU available until further notice.

6   Time Budget

- Each swarm is allocated a limited time budget per game.

- The time limit formula is:

$$time\ limit = time\_multiplier \times nr.\ of\ agents\ at\ spawn \times nr.\ of\ timesteps$$

- The current *time_multiplier* is set to 0.1.

- Once the time budget is depleted, the agents of that swarm will be "frozen" and cannot execute any further actions during that game.

7   Game Parameter Ranges

- The parameters governing the games are variable and will be based on values close to those set in the `deathmatch_config.json` file, which can be found within the package and on the repository.

- Exact parameter values will not be disclosed. This ensures that swarms which are robust to changes in the game environment parameters are more likely to succeed.

- Participants are encouraged to design their swarms to adapt to a range of scenarios rather than optimizing for a single, fixed set of parameters.

- It is recommended that participants frequently test their scripts with varying parameters to ensure adaptability and robustness of their swarms.

8   Sharing Progress

- Participants are permitted and encouraged to share their progress, techniques, and experiences with others throughout the duration of the competition.

- Sharing is intended to foster a collaborative environment and community engagement, leading to collective growth and learning. We have a dedicated channel on the Lab42 Discord server for discussions.

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[3]`https://cloud.google.com/compute/docs/general-purpose-machines#n1_machines`

9 Submission Rights and Licensing

- By submitting their scripts, participants agree to grant the organizers the rights to use, modify, and publish their scripts.

- All submitted scripts will be made available under the Apache 2.0 license, which allows for both commercial use and distribution, provided that the original work is properly credited and derivative works are licensed under the same terms.

A Available Python packages

Table 1: List of Installed Packages

Package Name	Version
Babel	2.12.1
Boruta	0.3
CVXcanon	0.1.2
Cartopy	0.22.0
Cython	0.29.35
Delorean	1.0.0
Deprecated	1.2.14
Fiona	1.9.4.post1
Geohash	1.0
GitPython	3.1.31
Gymnasium	0.26.3
ImageHash	4.3.1
Janome	0.5.0
Jinja2	3.1.2
Levenshtein	0.21.1
LunarCalendar	0.0.9
Mako	1.2.4
Markdown	3.4.3
MarkupSafe	2.1.3
Pillow	9.5.0
PuLP	2.7.0
PyArabic	0.6.15
PyAstronomy	0.19.0
PyJWT	2.7.0
PyMeeus	0.5.12
PySocks	1.7.1
PyUpSet	0.1.1.post7
PyWavelets	1.4.1
PyYAML	6.0

Package Name	Version
Pygments	2.15.1
Pympler	1.0.1
QtPy	2.4.0
Rtree	1.0.1
SQLAlchemy	2.0.17
SecretStorage	3.3.3
Send2Trash	1.8.2
Shapely	1.8.5.post1
SimpleITK	2.2.1
TPOT	0.12.1
Theano	1.0.5
Theano-PyMC	1.1.2
Unidecode	1.3.6
Wand	0.6.11
Wordbatch	1.4.9
absl-py	1.4.0
accelerate	0.22.0
access	1.1.9
affine	2.4.0
aiobotocore	2.5.4
aiofiles	22.1.0
aiohttp	3.8.4
aiohttp-cors	0.7.0
aioitertools	0.11.0
aiorwlock	1.3.0
aiosignal	1.3.1
aiosqlite	0.19.0
albumentations	1.3.1
alembic	1.12.0
altair	5.1.1
annoy	1.17.3
ansiwrap	0.8.4
anyio	3.7.0
apache-beam	2.46.0
aplus	0.11.0
appdirs	1.4.4
argon2-cffi	21.3.0
argon2-cffi-bindings	21.2.0
array-record	0.4.0
arrow	1.2.3
arviz	0.12.1
astroid	2.15.6
astropy	5.3.2
asttokens	2.2.1

Package Name	Version
astunparse	1.6.3
async-timeout	4.0.2
atpublic	4.0
attrs	23.1.0
audioread	3.0.0
autopep8	2.0.4
backcall	0.2.0
backoff	2.2.1
backports.functools-lru-cache	1.6.4
bayesian-optimization	1.4.3
bayespy	0.5.26
beatrix-jupyterlab	2023.621.222118
beautifulsoup4	4.12.2
bidict	0.22.1
biopython	1.81
blake3	0.2.1
bleach	6.0.0
blessed	1.20.0
blinker	1.6.2
blis	0.7.10
blosc2	2.0.0
bokeh	3.2.2
boltons	23.0.0
boto3	1.26.100
botocore	1.31.17
bq-helper	0.4.1
bqplot	0.12.40
branca	0.6.0
brewer2mpl	1.4.1
brotlipy	0.7.0
cachetools	4.2.4
catalogue	2.0.9
catalyst	22.4
catboost	1.2.1
category-encoders	2.6.2
certifi	2023.7.22
cesium	0.12.1
cffi	1.15.1
cftime	1.6.2
charset-normalizer	3.1.0
chex	0.1.82
cleverhans	4.0.0
click	8.1.7
click-plugins	1.1.1

Package Name	Version
cligj	0.7.2
cloud-tpu-client	0.10
cloud-tpu-profiler	2.4.0
cloudpickle	2.2.1
cmaes	0.10.0
cmdstanpy	1.1.0
cmudict	1.0.13
colorama	0.4.6
colorcet	3.0.1
colorful	0.5.5
colorlog	6.7.0
colorlover	0.3.0
comm	0.1.3
conda	23.7.3
conda-content-trust	0+unknown
conda-package-handling	2.0.2
conda-package-streaming	0.8.0
confection	0.1.1
contextily	1.3.0
contourpy	1.1.0
convertdate	2.4.0
crcmod	1.7
cryptography	38.0.4
cufflinks	0.17.3
cycler	0.11.0
cymem	2.0.7
cysignals	1.11.2
cytoolz	0.12.2
daal	2023.2.1
daal4py	2023.2.1
dacite	1.8.1
dask	2023.9.0
dataclasses-json	0.6.0
datasets	2.1.0
datashader	0.15.2
datashape	0.5.2
datatile	1.0.3
db-dtypes	1.1.1
deap	1.4.1
debugpy	1.6.7
decorator	5.1.1
defusedxml	0.7.1
deprecat	2.1.1
deprecation	2.1.0

Package Name	Version
descartes	1.1.0
dill	0.3.7
dipy	1.7.0
distlib	0.3.6
distributed	2023.9.0
dm-tree	0.1.8
docker	6.1.3
docker-pycreds	0.4.0
docopt	0.6.2
docstring-parser	0.15
docstring-to-markdown	0.12
docutils	0.20.1
earthengine-api	0.1.367
easydict	1.10
easyocr	1.7.1
ecos	2.0.12
eli5	0.13.0
emoji	2.8.0
en-core-web-lg	3.6.0
en-core-web-sm	3.6.0
entrypoints	0.4
ephem	4.1.4
esda	2.5.0
essentia	2.1b6.dev1034
et-xmlfile	1.1.0
etils	1.3.0
exceptiongroup	1.1.1
executing	1.2.0
explainable-ai-sdk	1.3.3
fastai	2.7.12
fastapi	0.98.0
fastavro	1.7.4
fastcore	1.5.29
fastdownload	0.0.7
fasteners	0.18
fastjsonschema	2.17.1
fastprogress	1.0.3
fasttext	0.9.2
fbpca	1.0
feather-format	0.4.1
featuretools	1.27.0
filelock	3.12.2
fitter	1.6.0
flake8	6.0.0

Package Name	Version
flashtext	2.7
flask	2.3.3
flatbuffers	23.5.26
flax	0.7.2
flit-core	3.9.0
folium	0.14.0
fonttools	4.40.0
fqdn	1.5.1
frozendict	2.3.8
frozenlist	1.3.3
fsspec	2023.9.0
funcy	2.0
fury	0.9.0
future	0.18.3
fuzzywuzzy	0.18.0
gast	0.4.0
gatspy	0.3
gcsfs	2023.6.0
gensim	4.3.2
geographiclib	2.0
geojson	3.0.1
geopandas	0.13.2
geoplot	0.5.1
geopy	2.4.0
geoviews	1.10.1
ggplot	0.11.5
giddy	2.3.4
gitdb	4.0.10
google-api-core	2.11.1
google-api-python-client	2.97.0
google-apitools	0.5.31
google-auth	2.20.0
google-auth-httplib2	0.1.0
google-auth-oauthlib	1.0.0
google-cloud-aiplatform	0.6.0a1
google-cloud-artifact-registry	1.8.1
google-cloud-automl	1.0.1
google-cloud-bigquery	2.34.4
google-cloud-bigtable	1.7.3
google-cloud-core	2.3.2
google-cloud-datastore	1.15.5
google-cloud-dlp	3.12.1
google-cloud-language	2.11.0
google-cloud-monitoring	2.15.0

Package Name	Version
google-cloud-pubsub	2.17.1
google-cloud-pubsublite	1.8.2
google-cloud-recommendations-ai	0.7.1
google-cloud-resource-manager	1.10.1
google-cloud-spanner	3.36.0
google-cloud-storage	1.44.0
google-cloud-translate	3.12.0
google-cloud-videointelligence	2.11.3
google-cloud-vision	2.8.0
google-crc32c	1.5.0
google-pasta	0.2.0
google-resumable-media	2.5.0
googleapis-common-protos	1.59.1
gplearn	0.4.2
gpustat	1.0.0
gpxpy	1.5.0
graphviz	0.20.1
greenlet	2.0.2
grpc-google-iam-v1	0.12.6
grpcio	1.51.3
grpcio-status	1.46.3
gviz-api	1.10.0
gym	0.26.2
gym-notices	0.0.8
gymnasium-notices	0.0.1
h11	0.14.0
h2o	3.42.0.3
h5py	3.9.0
haversine	2.8.0
hdfs	2.7.0
hep-ml	0.7.2
hijri-converter	2.3.1
hmmlearn	0.3.0
holidays	0.24
holoviews	1.17.1
hpsklearn	0.1.0
html5lib	1.1
htmlmin	0.1.12
httplib2	0.21.0
httptools	0.6.0
huggingface-hub	0.16.4
humanize	4.8.0
hunspell	0.5.5
husl	4.0.3

Package Name	Version
hydra-slayer	0.4.1
hyperopt	0.2.7
hypertools	0.8.0
ibis-framework	6.2.0
idna	3.4
igraph	0.10.6
imagecodecs	2023.9.4
imageio	2.31.1
imbalanced-learn	0.11.0
imgaug	0.4.0
importlib-metadata	6.7.0
importlib-resources	5.12.0
inequality	1.0.0
iniconfig	2.0.0
ipydatawidgets	4.3.5
ipykernel	6.23.3
ipyleaflet	0.17.3
ipympl	0.7.0
ipython	8.14.0
ipython-genutils	0.2.0
ipython-sql	0.5.0
ipyvolume	0.6.3
ipyvue	1.10.0
ipyvuetify	1.8.10
ipywebrtc	0.6.0
ipywidgets	7.7.1
isoduration	20.11.0
isort	5.12.0
isoweek	1.3.3
itsdangerous	2.1.2
jaraco.classes	3.2.3
jax	0.4.13
jaxlib	0.4.13
jedi	0.18.2
jeepney	0.8.0
jieba	0.42.1
jmespath	1.0.1
joblib	1.3.2
json5	0.9.14
jsonpatch	1.32
jsonpointer	2.0
jsonschema	4.17.3
jupyter-client	7.4.9
jupyter-console	6.6.3

Package Name	Version
jupyter-core	5.3.1
jupyter-events	0.6.3
jupyter-http-over-ws	0.0.8
jupyter-lsp	1.5.1
jupyter-server	2.6.0
jupyter-server-fileid	0.9.0
jupyter-server-mathjax	0.2.6
jupyter-server-proxy	4.0.0
jupyter-server-terminals	0.4.4
jupyter-server-ydoc	0.8.0
jupyter-ydoc	0.2.5
jupyterlab	3.6.5
jupyterlab-git	0.41.0
jupyterlab-lsp	4.2.0
jupyterlab-pygments	0.2.2
jupyterlab-server	2.23.0
jupyterlab-widgets	3.0.7
jupytext	1.14.6
kaggle	1.5.16
kaggle-environments	1.12.0
keras	2.12.0
keras-core	0.1.5
keras-cv	0.6.1
keras-nlp	0.6.1
keras-tuner	1.3.5
keyring	24.2.0
keyrings.google-artifactregistry-auth	1.1.2
kfp	2.0.1
kfp-pipeline-spec	0.2.2
kfp-server-api	2.0.0
kiwisolver	1.4.4
kmapper	2.0.1
kmodes	0.12.2
korean-lunar-calendar	0.3.1
kornia	0.7.0
kt-legacy	1.0.5
kubernetes	26.1.0
langcodes	3.3.0
langid	1.1.6
lazy-loader	0.2
lazy-object-proxy	1.9.0
learntools	0.3.4
leven	1.0.4
libclang	16.0.0

Package Name	Version
libmambapy	1.5.1
libpysal	4.7.0
librosa	0.10.1
lightgbm	3.3.2
lightning-utilities	0.9.0
lime	0.2.0.1
line-profiler	4.1.1
linkify-it-py	2.0.2
llvmlite	0.40.1
lml	0.1.0
locket	1.0.0
lxml	4.9.3
lz4	4.3.2
mamba	1.5.1
mapclassify	2.6.0
marisa-trie	1.0.0
markdown-it-py	2.2.0
markovify	0.9.4
marshmallow	3.20.1
matplotlib	3.7.2
matplotlib-inline	0.1.6
matplotlib-venn	0.11.9
mccabe	0.7.0
mdit-py-plugins	0.4.0
mdurl	0.1.2
memory-profiler	0.61.0
mercantile	1.2.1
mgwr	2.1.2
missingno	0.5.2
mistune	0.8.4
mizani	0.10.0
ml-dtypes	0.2.0
mlcrate	0.2.0
mlens	0.2.3
mlxtend	0.22.0
mmh3	4.0.1
mne	1.5.0
mnist	0.2.2
mock	5.1.0
momepy	0.6.0
more-itertools	9.1.0
mpld3	0.5.9
mpmath	1.3.0
msgpack	1.0.5

Package Name	Version
msgpack-numpy	0.4.8
multidict	6.0.4
multimethod	1.9.1
multipledispatch	1.0.0
multiprocess	0.70.15
munkres	1.1.4
murmurhash	1.0.9
mypy-extensions	1.0.0
namex	0.0.7
nb-conda	2.2.1
nb-conda-kernels	2.3.1
nbclassic	1.0.0
nbclient	0.5.13
nbconvert	6.4.5
nbdime	3.2.0
nbformat	5.9.0
nest-asyncio	1.5.6
netCDF4	1.6.4
networkx	3.1
nibabel	5.1.0
nilearn	0.10.1
ninja	1.11.1
nltk	3.2.4
nose	1.3.7
notebook	6.5.4
notebook-executor	0.2
notebook-shim	0.2.3
numba	0.57.1
numexpr	2.8.5
numpy	1.23.5
nvidia-ml-py	11.495.46
oauth2client	4.1.3
oauthlib	3.2.2
objsize	0.6.1
odfpy	1.4.1
olefile	0.46
onnx	1.14.1
opencensus	0.11.2
opencensus-context	0.1.3
opencv-contrib-python	4.8.0.76
opencv-python	4.8.0.76
opencv-python-headless	4.8.0.76
openpyxl	3.1.2
openslide-python	1.3.0

Package Name	Version
opentelemetry-api	1.18.0
opentelemetry-exporter-otlp	1.18.0
opentelemetry-exporter-otlp-proto-common	1.18.0
opentelemetry-exporter-otlp-proto-grpc	1.18.0
opentelemetry-exporter-otlp-proto-http	1.18.0
opentelemetry-proto	1.18.0
opentelemetry-sdk	1.18.0
opentelemetry-semantic-conventions	0.39b0
opt-einsum	3.3.0
optax	0.1.7
optuna	3.3.0
orbax-checkpoint	0.3.5
orderedmultidict	1.0.1
orjson	3.9.1
ortools	9.4.1874
osmnx	1.1.1
overrides	6.5.0
packaging	21.3
pandas	2.0.3
pandas-datareader	0.10.0
pandas-profiling	3.6.6
pandas-summary	0.2.0
pandasql	0.7.3
pandocfilters	1.5.0
panel	1.2.2
papermill	2.4.0
param	1.13.0
parso	0.8.3
parsy	2.1
partd	1.4.0
path	16.7.1
path.py	12.5.0
pathos	0.3.1
pathtools	0.1.2
pathy	0.10.2
patsy	0.5.3
pdf2image	1.16.3
pexpect	4.8.0
phik	0.12.3
pickleshare	0.7.5
pip	23.1.2
pkgutil-resolve-name	1.3.10
platformdirs	3.10.0
plotly	5.15.0

Package Name	Version
plotly-express	0.4.1
plotnine	0.10.1
pluggy	1.0.0
pointpats	2.3.0
polars	0.19.2
polyglot	16.7.4
pooch	1.7.0
pox	0.3.3
ppca	0.0.4
ppft	1.7.6.7
preprocessing	0.1.13
preshed	3.0.8
prettytable	3.8.0
progressbar2	4.2.0
prometheus-client	0.17.0
promise	2.3
prompt-toolkit	3.0.38
pronouncing	0.2.0
prophet	1.1.1
proto-plus	1.22.3
protobuf	3.20.3
psutil	5.9.3
ptyprocess	0.7.0
pudb	2022.1.3
pure-eval	0.2.2
py-cpuinfo	9.0.0
py-lz4framed	0.14.0
py-spy	0.3.14
py4j	0.10.9.7
pyLDAvis	3.2.2
pyOpenSSL	23.2.0
pyaml	23.9.1
pyarrow	9.0.0
pyasn1	0.4.8
pyasn1-modules	0.2.7
pybind11	2.11.1
pyclipper	1.3.0.post4
pycodestyle	2.10.0
pycolmap	0.4.0
pycosat	0.6.4
pycparser	2.21
pycryptodome	3.18.0
pyct	0.5.0
pydantic	1.10.9

Package Name	Version
pydegensac	0.1.2
pydicom	2.4.3
pydocstyle	6.3.0
pydot	1.4.2
pydub	0.25.1
pyemd	1.0.0
pyerfa	2.0.0.3
pyexcel-io	0.6.6
pyexcel-ods	0.6.0
pyfasttext	0.4.6
pyflakes	3.0.1
pygame	2.5.2
pygltflib	1.16.0
pykalman	0.9.5
pylint	2.17.5
pymc3	3.11.5
pymongo	3.13.0
pynndescent	0.5.10
pyocr	0.8.3
pyparsing	3.0.9
pypdf	3.15.5
pyproj	3.6.0
pyrsistent	0.19.3
pysal	23.7
pyshp	2.3.1
pytesseract	0.3.10
pytest	7.4.1
python-Levenshtein	0.21.1
python-bidi	0.4.2
python-dateutil	2.8.2
python-dotenv	1.0.0
python-json-logger	2.0.7
python-louvain	0.16
python-lsp-jsonrpc	1.0.0
python-lsp-server	1.7.4
python-slugify	8.0.1
python-utils	3.7.0
pythreejs	2.4.2
pytoolconfig	1.2.5
pytorch-ignite	0.4.12
pytorch-lightning	2.0.8
pytz	2023.3
pyu2f	0.1.5
pyviz-comms	3.0.0

Package Name	Version
pyzmq	25.1.0
qgrid	1.3.1
qtconsole	5.4.4
quantecon	0.7.1
quantities	0.14.1
qudida	0.0.4
randomgen	1.23.1
rapidfuzz	3.2.0
rasterio	1.3.8
rasterstats	0.19.0
ray	2.5.1
ray-cpp	2.5.1
regex	2023.6.3
requests	2.31.0
requests-oauthlib	1.3.1
requests-toolbelt	0.10.1
responses	0.18.0
retrying	1.3.3
rfc3339-validator	0.1.4
rfc3986-validator	0.1.1
rgf-python	3.12.0
rich	13.4.2
rope	1.9.0
rsa	4.9
ruamel-yaml-conda	0.15.100
ruamel.yaml	0.17.32
ruamel.yaml.clib	0.2.7
s2sphere	0.2.5
s3fs	2023.9.0
s3transfer	0.6.2
safetensors	0.3.3
scattertext	0.1.19
scikit-image	0.21.0
scikit-learn	1.2.2
scikit-learn-intelex	2023.2.1
scikit-multilearn	0.2.0
scikit-optimize	0.9.0
scikit-plot	0.3.7
scikit-surprise	1.1.3
scipy	1.11.2
seaborn	0.12.2
segment-anything	1.0
segregation	2.5
semver	3.0.1

Package Name	Version
sentencepiece	0.1.99
sentry-sdk	1.30.0
setproctitle	1.3.2
setuptools	68.0.0
setuptools-git	1.2
setuptools-scm	7.1.0
shap	0.42.1
simpervisor	1.0.0
simplejson	3.19.1
six	1.16.0
sklearn-pandas	2.2.0
slicer	0.0.7
smart-open	6.3.0
smhasher	0.150.1
smmap	5.0.0
sniffio	1.3.0
snowballstemmer	2.2.0
snuggs	1.4.7
sortedcontainers	2.4.0
soundfile	0.12.1
soupsieve	2.3.2.post1
soxr	0.3.6
spacy	3.6.1
spacy-legacy	3.0.12
spacy-loggers	1.0.4
spaghetti	1.7.4
spectral	0.23.1
spglm	1.0.8
sphinx-rtd-theme	0.2.4
spint	1.0.7
splot	1.1.5.post1
spopt	0.5.0
spreg	1.3.2
spvcm	0.3.0
sqlglot	17.16.2
sqlparse	0.4.4
squarify	0.4.3
srsly	2.4.7
stack-data	0.6.2
starlette	0.27.0
statsmodels	0.14.0
stemming	1.0.1
stop-words	2018.7.23
stopit	1.1.2

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stumpy	1.12.0
sympy	1.12
tables	3.8.0
tabulate	0.9.0
tangled-up-in-unicode	0.2.0
tbb	2021.10.0
tblib	2.0.0
tenacity	8.2.2
tensorboard	2.12.3
tensorboard-data-server	0.7.1
tensorboard-plugin-profile	2.13.0
tensorboardX	2.6
tensorflow	2.12.0
tensorflow-addons	0.21.0
tensorflow-cloud	0.1.16
tensorflow-datasets	4.9.2
tensorflow-decision-forests	1.4.0
tensorflow-estimator	2.12.0
tensorflow-hub	0.12.0
tensorflow-io	0.32.0
tensorflow-io-gcs-filesystem	0.32.0
tensorflow-metadata	0.14.0
tensorflow-probability	0.20.1
tensorflow-serving-api	2.12.1
tensorflow-text	2.12.1
tensorflow-transform	0.14.0
tensorflowjs	3.15.0
tensorpack	0.11
tensorstore	0.1.41
termcolor	2.3.0
terminado	0.17.1
testpath	0.6.0
text-unidecode	1.3
textblob	0.17.1
texttable	1.6.7
textwrap3	0.9.2
thinc	8.1.12
threadpoolctl	3.1.0
tifffile	2023.4.12
timm	0.9.7
tinycss2	1.2.1
tobler	0.11.1
tokenizers	0.13.3
toml	0.10.2

Package Name	Version
tomli	2.0.1
tomlkit	0.12.1
toolz	0.12.0
torch	2.0.0+cpu
torchaudio	2.0.1+cpu
torchdata	0.6.0
torchinfo	1.8.0
torchmetrics	1.1.1
torchtext	0.15.1+cpu
torchvision	0.15.1+cpu
tornado	6.3.2
tqdm	4.66.1
traceml	1.0.8
traitlets	5.9.0
traittypes	0.2.1
transformers	4.33.0
trueskill	0.4.5
tsfresh	0.20.1
typeguard	2.13.3
typer	0.9.0
typing-extensions	4.6.3
typing-inspect	0.9.0
typing-utils	0.1.0
tzdata	2023.3
tzlocal	5.0.1
uc-micro-py	1.0.2
ujson	5.8.0
umap-learn	0.5.3
unicodedata2	15.0.0
update-checker	0.18.0
uri-template	1.3.0
uritemplate	3.0.1
urllib3	1.26.15
urwid	2.1.2
urwid-readline	0.13
uvicorn	0.22.0
uvloop	0.17.0
vaex	4.17.0
vaex-astro	0.9.3
vaex-core	4.17.1
vaex-hdf5	0.14.1
vaex-jupyter	0.8.2
vaex-ml	0.18.3
vaex-server	0.9.0

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vaex-viz	0.5.4
vecstack	0.4.0
virtualenv	20.21.0
visions	0.7.5
vowpalwabbit	9.9.0
vtk	9.2.6
wandb	0.15.9
wasabi	1.1.2
watchfiles	0.20.0
wavio	0.0.7
wcwidth	0.2.6
webcolors	1.13
webencodings	0.5.1
websocket-client	1.6.0
websockets	11.0.3
werkzeug	2.3.7
wfdb	4.1.2
whatthepatch	1.0.5
wheel	0.40.0
widgetsnbextension	3.6.5
witwidget	1.8.1
woodwork	0.26.0
wordcloud	1.9.2
wordsegment	1.3.1
wrapt	1.14.1
wurlitzer	3.0.3
xarray	2023.8.0
xarray-einstats	0.6.0
xgboost	1.7.6
xvfbwrapper	0.2.9
xxhash	3.3.0
xyzservices	2023.7.0
y-py	0.6.0
yapf	0.40.1
yarl	1.9.2
ydata-profiling	4.3.1
yellowbrick	1.5
ypy-websocket	0.8.4
zict	3.0.0
zipp	3.15.0
zstandard	0.19.0