

Requirements

All the python scripts in the repository use Python version 3.12.3.

Ideally, you should initialise a virtual environment before installing the requirements.

The requirements are listed in my requirements.txt file at the root of my repository, and can be installed using the following command:

```
pip install -r requirements.txt
```

The full list of requirements is as follows:

```
asttokens==3.0.0
click==8.1.8
colorama==0.4.6
comm==0.2.2
contourpy==1.3.1
cycler==0.12.1
Cython==3.0.12
debugpy==1.8.13
decorator==5.2.1
executing==2.2.0
fonttools==4.56.0
imbalanced-learn==0.13.0
ipykernel==6.29.5
ipython==9.0.2
ipython_pygments_lexers==1.1.1
jedi==0.19.2
joblib==1.4.2
jupyter_client==8.6.3
jupyter_core==5.7.2
kiwisolver==1.4.8
matplotlib==3.10.1
matplotlib-inline==0.1.7
nest-asyncio==1.6.0
nltk==3.9.1
numpy==2.2.4
packaging==24.2
pandas==2.2.3
parso==0.8.4
pillow==11.1.0
platformdirs==4.3.7
prompt_toolkit==3.0.50
psutil==7.0.0
pure_eval==0.2.3
Pygments==2.19.1
pyparsing==3.2.1
python-dateutil==2.9.0.post0
pytz==2025.1
pywin32==310
pyzmq==26.3.0
regex==2024.11.6
scikit-learn==1.6.1
scipy==1.15.2
setuptools==77.0.3
six==1.17.0
sklearn-compat==0.1.3
stack-data==0.6.3
threadpoolctl==3.6.0
tornado==6.4.2
```

```
tqdm==4.67.1
traitlets==5.14.3
tzdata==2025.1
wcwidth==0.2.13
wheel==0.45.1
```

Once the requirements are installed, each file can be run using the command `python {script_name.py}` (more details on the step by step running guide are provided in [manual.pdf](#)).