

### **Dependencies and Version Information**

To ensure the correct execution of the code, please install the following dependencies:

Python >= 3.8

numpy >= 1.21.0

pandas >= 1.3.0

scikit-learn >= 0.24.0

imbalanced-learn >= 0.8.0

matplotlib >= 3.4.0

seaborn >= 0.11.0

nltk >= 3.6.0