

Required Packages and Versions

To run the bug report classification tool, please ensure the following Python packages are installed:

- numpy==1.24.3
- pandas==2.0.3
- scikit-learn==1.3.0
- nltk==3.9.1

To install them directly, use the following pip command:

```
pip install numpy==1.24.3 pandas==2.0.3 scikit-learn==1.3.0 nltk==3.9.1
```

Environment Information:

- Python version: 3.11+
- Operating System: Windows/macOS/Linux (cross-platform)

Note:

- The code also uses standard libraries (`os`, `math`, `re`, `subprocess`) which do not require separate installation.
- Ensure `nltk` has the required corpus downloaded by running the following in Python:

```
>>> import nltk  
>>> nltk.download('stopwords')
```