

Dependencies & Environment

This project requires the following software and packages:

Python Version:

- Python 3.8 or later

Core Dependencies:

- pandas \geq 1.1.0
- numpy \geq 1.19.0
- matplotlib \geq 3.3.0
- seaborn \geq 0.11.0
- nltk \geq 3.5
- scikit-learn \geq 0.24.0
- xgboost \geq 1.3.0
- transformers \geq 4.0.0
- datasets \geq 1.0.0
- torch \geq 1.7.0
- sentence-transformers \geq 2.0.0

Optional:

- Google Colab or Jupyter Notebook for execution
- GPU (e.g., Colab GPU or CUDA-compatible hardware) recommended for BERT training