Core Dependencies

1. Python ($\geq$ 3.8) – Ensure compatibility with modern libraries.

2. NumPy ($\geq$ 1.21) – Efficient numerical operations.

3. Pandas ($\geq$ 1.3) – Data manipulation.

4. Scikit-learn ($\geq$ 1.0) – Machine learning models (SVM, GridSearchCV).

5. NLTK ($\geq$ 3.6) – Lemmatization and stemming.

6. Sentence-Transformers ($\geq$ 2.2) – SBERT embeddings.

7. VADER-Sentiment (Included in NLTK) – Sentiment analysis.