Module 3: Classical Modeling and Feature Extraction

2.1 Text classification, maximum entropy modeling, and clustering, traditional machine learning methods such as logistic regression, decision trees, ensemble methods, random forests, naïve bayes, svm for NLP, Supervised, Semi-Supervised and Unsupervised methods for handling NLP tasks.

2.2 What is a word embedding, Understanding Static Embeddings: Word2Vec, GloVe, Doc2vec. Topic modeling, LDA, HMM Packages: scikit-learn, Gensim.