- 1 Introduction to NLP
- 2 Text Preprocessing
 - Noise Removal
 - Lexicon Normalization
 - Lemmatization
 - Stemming
 - Object Standardization
- 3 Text to Features (Feature Engineering on text data)
 - Syntactical Parsing
 - Dependency Grammar
 - Part of Speech Tagging
 - Entity Parsing
 - Phrase Detection
 - Named Entity Recognition
 - Topic Modelling
 - N-Grams. ..worth saying !...
 - Statistical features
 - TF IDF
 - Frequency / Density Features
 - Readability Features
 - Word Embeddings
- 4 Important tasks of NLP
 - Text Classification
 - Text Matching
 - Levenshtein Distance
 - Phonetic Matching
 - Flexible String Matching
- 5 Important NLP libraries

SL :(Classifier) Naives bayes classier, decision tree classifier, SVM

USL: Latent Dirichlet Allocation (text clustering algorithm), Latent Semantic Analysis (text mining and information retrieval.

Useful libraries:

- · Scikit-learn: Machine learning in Python
- Natural Language Toolkit (NLTK): The complete toolkit for all NLP techniques.
- spaCy Industrial strength N LP with Python and Cython.
- · Gensim Topic Modelling for Humans
- Stanford Core NLP NLP services and packages by Stanford NLP Group. Useful libraries:
- Pattern A web mining module for the with tools for NLP and machine learning.
- TextBlob Easy to use nlp tools API, built on top of NLTK and Pattern.