

NATURAL LANGUAGE PROCESSING

With Real-World Case Studies &
Industrial Projects



Syllabus PDF

1. Introduction to NLP (Natural Language Processing)

2. Areas of Application

3. Regular Expressions

4. Tokenization and Stopwords

5. Stemming and Lemmatization

6. Bag-of-Words Representation

7. TF-IDF Representation

8. Understanding Naive Bayes Algorithm

9. Evaluation Metrics for Classification Task



PROJECT 1

**Building a Spam Mail
Detector Application!**



1. Syntax and Syntactic Processing
2. Part of Speech (PoS) Tagging
3. PoS Tagging Case Study
4. Name Entity Recognition
5. Introduction to Topic Modellings on Social Media Data
6. Non-Negative Matrix Factorization
7. Code Demonstration: Topic Modelling on IMDb Review



PROJECT 2

**Automatic Ticket Classification for
Customer's Complain in a Finance Company**

1. Deep Learning Approach for NLP
2. Introduction to Neural Networks
3. Understanding Recurrent Neural Networks (RNN)
4. Understanding LSTM and GRU
5. Sequencing, Padding and Word Embeddings



PROJECT 3

Advance Sentiment Analysis on Social Media Data

