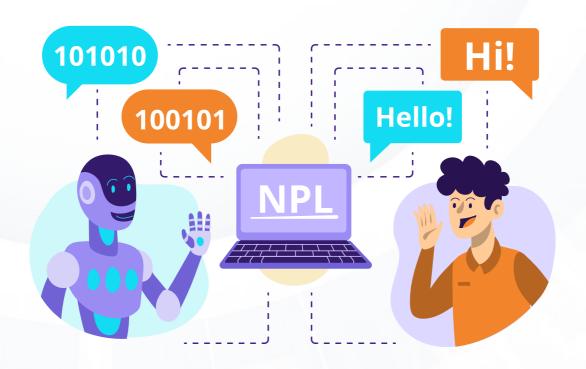


# NATURAL LANGUAGE PROCESSING

With Real-World Case Studies & Industrial Projects



Syllabus PDF

## **MODULE-1**



- 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





## MODULE 2



- 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

## **MODULE 3**



- 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**

