

TEXT Analysis with Python (NLP)

Chapter 1: Natural Language Basics

- Natural Language
- Linguistics
- Language Syntax and Structure
- Text Corpora
- Natural Language Processing

Chapter 2: Python Refresher

- Python Syntax and Structure
- Data Structures and Types
- Control flow
- Functional Programming
- Classes
- Regex in Python

Chapter 3: Processing and Understanding Text

- Text Tokenization
- Text Normalization
- Understanding Text Syntax and Structure

Chapter 4: Text Classification

- What is Text Classification?
- Text Classification Blueprint
- Text Normalization
- Feature Extraction
- Classification Algorithms
- Evaluation Classification Models

Chapter 5: Text Summarization

- Text Summarization and Information Extraction
- Feature Matrix
- Single Value Decomposition
- Keyphrase Extraction
- Topic Modelling

- Automated Document Summarization

Chapter 6: Text Similarity and Clustering

- Information Retrieval
- Feature Engineering
- Text Similarity
- Analyzing Term Similarity
- Analyzing Document Similarity
- Document Clustering
- Clustering Greatest Movies of All Time

Chapter 7: Semantic and Sentiment Analysis

- Semantic Analysis
- Exploring WordNet
- Word Sense Disambiguation
- Named Entity Recognition
- Analyzing Semantic Representation
- Sentiment Analysis