

Natural Language Processing, Text Mining

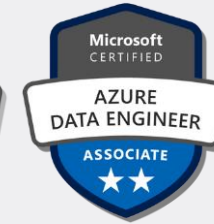


Presenter



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Lead Data Scientist
Big Data | Machine Learning | AI



Mohammed Arif has more than fifteen (15) years of working experience in Information Communication and Technology (ICT) industry. The highlights of his career are more than six (7) years of holding various senior management and/or C-Level and had five (5) years of international ICT consultancy exposure in various countries (APAC and Australia), specially on Big Data, Data Engineering, Machine Learning and AI arena.

He is also Certified Trainer for Microsoft.



Resources

<http://arif.works/nlp/>

Learning Path

- Python Text Basics
- NLP Python Basics
- Parts of Speech Tagging
- Text Classification
- Semantics and Sentiment Analysis
- Topic Modeling
- ChatBots and Advanced Material

Learning Path

- Python Text Basics
 - We'll learn the basics of Python's text capabilities.
 - Opening Text Files
 - Working with PDF Files
 - Regular Expressions

Learning Path

- NLP Python Basics
 - Deeper dive into Spacy and NLTK
 - Two most popular NLP libraries for Python
 - Spacy Pipelines
 - Tokenizations
 - Stemming
 - Lemmatizations
 - Stop Words
 - Vocabulary and Phrase Matching

Learning Path

- **Parts of Speech Tagging**
 - Parts-of-Speech (POS)
 - Named Entity Recognition (NER)
 - Sentence Segmentation with Spacy
 - Visualization of POS and NER

Learning Path

- Text Classification
 - SciKit-Learn for Machine Learning
 - Text Feature Extraction
 - Count Vectorization
 - TF-IDF Vectorizations
 - Text Classification Projects

Learning Path

- Semantics and Sentiment Analysis
 - Semantics and Word Vectors (Word2Vec)
 - Sentiment Analysis

Learning Path

- Topic Modeling
 - Latent Dirichlet Allocation
 - Non-negative Matrix Factorization
 - Topic Modelling Projects with LDA and NMF

Let's get
started!

What is Natural Language Processing(NLP)?

Natural Language Processing refers to [computer understanding](#) and manipulation of [human language](#).

Hands-on

Installation of Anaconda with Virtual Environment

<https://www.anaconda.com/download/>