

DATA SCIENCE SYLLABUS

- Probability - Joint, Conditional, Marginal
- Probability Distributions
- Univariate Analysis
- Bivariate Analysis
- Multivariate Analysis
- Sample and Population
- Sampling Techniques
- Sampling Size Calculations
- Correlation, Covariance and Interquartile Ranges
- Inferential Analysis-Hypothesis Testing
- Introduction to Data Science
- Working with Data Types and Operators in Python
- Writing Functions in Python
- Popular Data Science Packages in Python
- Advanced Functions
- Data Manipulation and Analysis with Pandas
- Data Visualization with Matplotlib
- Random Variables and Statistical Inferences
- Statistical Distributions and Hypothesis Testing
- Data Cleaning
- Exploratory Data Analysis
- Getting Started with Linear Algebra for Machine Learning
- Data Engineering
- Data Storage
- Data Visualization
- Classification and Decision Trees
- Linear and non - linear regression
- Evaluating Data Models

- Time series analysis forecasting
- Clustering Models
- Exploratory Data Analysis
- Topic Model
- Text Analysis
- Social Network Analysis