

DATA SCIENCE S Y L L A B U S

What you will learn

- Basics of Statistics and Probability
- Tools and Data Management
- Statistics and Exploratory Data Analysis
- Fundamentals of Machine Learning

Course Content

Basics of Statistics and Probability

Tools and Data Management

- Python Basics
- Intermediate Python
- Relational Databases
- SQL
- Data Extraction
- Data Cleaning

Statistics and Exploratory Data Analysis

- Statistical Distributions
- Sampling
- Hypothesis Testing

Statistics and Exploratory Data Analysis

- Lists, Dictionaries, Looping, Functions
- Git/Github
- Data Analysis & Visualization (Numpy)
- Data Analysis & Visualization (Pandas)
- Accessing Data through APIs

Fundamentals of Machine Learning

- Linear Regression
- Logistics Regression, Step-wise
 Regression, Non-linear Regression
- Classification
- Dimensionality Reduction
- Naive Bayes
- K-Means
- Text Mining

Fundamentals of Machine Learning

- Clustering
- Grid Search
- Decision Trees
- Time Series Analysis
- Linear Optimization

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