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Data Science with Python, Machine Learning, SQL and Power BI:

Introduction – SQL

Module 1 : Basic Statistics for Data science

- Basic business statistics, Variable types, Central tendency, Standard deviation and Variance
- Probability Theory – Basics and Baye's theorem
- Data Distributions and 5 -Hypothesis Testing
- Case studies on Hypothesis Testing
- Assignment Case study : probabilities and Hypothesis testing
- Discussion on the Assignment and Query session

Module 2 : Data Visualization – Power BI (there are more detailed topics which I will share during the course)

- Introduction to Power BI , interface and products
- Data Types and basic Visuals
- Data cleaning with Power BI
- Custom Visuals, custom dimensions and measures, slicers and indexing records
- DAX queries
- Complete dashboard and online publishing
- On premises gate way, row level filtering

Module 3: Introduction to Python Programming for Data Science

Data Munging Basics

- Data visualization
- Basic Maths with Python
- Outlier Detection

Module 4 : Introduction to Machine Learning:

- Supervised learning and Unsupervised learning Introduction
- Introduction to regression – simple linear regression
- Multiple linear regression
- Logistic regression
- Random Forest
- Support Vector Machine
- XG Boost
- Cluster Analysis with Python – K means
- DB scan clustering
- Market basket Analysis
- Page Rank Algorithm
- AHP

Module 5 : Optimization

- Introduction to linear programming
- Problems with Linear Programming