



DATA SCIENCE

Data Science Course Syllabus

Data Science Basics & Background

- ✓ Introduction to Data Science
- ✓ Data Science Lifecycle
- ✓ Applications of Data Science
- ✓ Python Basics
- ✓ Jupyter Notebook
- ✓ NumPy & Pandas
- ✓ Data Collection
- ✓ Data Cleaning
- ✓ Exploratory Data Analysis (EDA)

Module 1 - Python & Statistics

- ✓ Python Programming
- ✓ Functions & OOP
- ✓ File Handling
- ✓ NumPy
- ✓ Pandas
- ✓ Mean, Median, Mode
- ✓ Probability
- ✓ Correlation
- ✓ Hypothesis Testing

Module 2 - Data Processing & Visualization

- ✓ Data Preprocessing
- ✓ Feature Engineering
- ✓ Matplotlib
- ✓ Seaborn
- ✓ Plotly
- ✓ SQL for Data Science
- ✓ Data Visualization

Module 3 - Machine Learning

- ✓ Supervised Learning
- ✓ Unsupervised Learning
- ✓ Linear Regression

- ✓ Logistic Regression
- ✓ Decision Tree
- ✓ Random Forest
- ✓ SVM
- ✓ KNN
- ✓ Model Evaluation
- ✓ Flask Deployment
- ✓ Git & GitHub
- ✓ Capstone Project
- ✓ Resume Building
- ✓ Interview Preparation
- ✓ Placement Assistance