

# Data Science with Python

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## **PYTHON**

Introduction  
Control flow and loops  
Functions  
Data Structures  
Classes  
File Handling  
Exception Handling

## **ADVANCE PYTHON**

- NumPy
- SciPy
- Pandas

## **MACHINE LEARNING (Python scikit-learn)**

- Introduction
  - Supervise learning
  - Unsupervise learning
- Linear Regression
- Logistic Regression
- Neural Network
- Support vector machine
- Unsupervised learning
  - K-means algorithm
  - Dimensionality Reduction
  - PCA (Principle Component Analysis)
- Case Study
  - Anomaly Detection
  - Recommender System
- Big Data analysis
  - Introduction
  - Map-Reduce
  - Hadoop Introduction