

Data Science with Python Training Course Content

Section 1: Introduction to Data Science

- What is Data Science?
- Where it is used?
- Data Science recent trends
- Data Science Fundamentals
- Data Science Application using Python
- Python concepts for Data Science

Section 2: Introduction to Python

- What is Python?
- Where it is used?
- Recent trends in Python
- Python Installation
- Python basics
- Python applications
- Python IDE
- Sample Python scripts

Section 3: Understanding Python concepts

- Python Anaconda
- Python comments
- Construct in Python
- Names
- Variables
- Data Types
- Containers
- Operators
- Loops
- Statement

Section 4: OOPS Concepts for Python

- Encapsulation
- Inheritance

- Polymorphism
- Abstraction
- Modifiers
- Instances,
- Class and objects
- Working with Lambda expressions.

Section 5: NumPy and SciPy Concepts

- Mathematical computing
- Scientific computing
- What is NumPy?
- What is SciPy?
- NumPy array manipulation
- Understanding Bayes Theorem

Section 6: Working with Data Manipulation

- Introduction to Data Manipulation
- Introduction to Pandas
- Types of Joins
- Concept of Dataset
- Working with Pandas

Section 7: Deploying Matplotlib

- Visualization concepts
- Introduction to Matplotlib
- Data Visualization with Pandas
- Working with Subplots

Section 8: Understanding Machine Learning with Python

- What is Machine Learning?
- Where it is used?
- Machine Learning latest trends
- Machine Learning usecases
- Machine Learning algorithms
- Supervised Learning
- Unsupervised Learning

Section 9: Python and Spark

- Installation of pyspark
- Introduction to pyspark

- Fundamentals of pyspark
- Concepts of Mapreduce
- Working with pyspark



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