

Data Science with Python



1. The Data Science: An Overview

- Introduction to the Data Science
- Different Sectors Using Data Science
- The Purpose and Components of Python

2. Data Analytics Overview

- The Data Analytics Process
- Exploratory the Data Analysis (EDA)
- EDA-Quantitative Technique
- EDA - Graphical Technique
- The Data Analytics Conclusion or Predictions
- The Data Analytics Communication
- The Data Types for Plotting

3. Statistical Analysis and Business Applications

- Introduction to the Statistics
- About Statistical and Non-statistical Analysis
- The Major Categories of Statistics
- About the Statistical Analysis Considerations
- The Population and Sample
- What is the Statistical Analysis Process?
- The Data Distribution
- Dispersion

4. Python Environment Setup and Essentials

- About the Anaconda
- The Installation of Anaconda Python Distribution
- Data Types in the Python

- Basic Operators and Functions

5. What is Mathematical Computing with Python (NumPy)?

- An Introduction to the Numpy
- The Activity-Sequence it Right
- Class and Attributes of ndarray
- All About the Basic Operations
- Activity-Slice It
- Copy and Views
- About the Mathematical Functions of Numpy

6. The Scientific computing with Python (Scipy)

- Introduction to the SciPy
- About the SciPy Sub Package - Integration and Optimization
- What is SciPy sub package?
- Know About the SciPy Sub Package - Statistics, Weave and IO

7. The Data Manipulation with Pandas

- Introduction to the Pandas
- Understanding DataFrame
- The Missing Values
- The Data Operations
- About File Read and the Write Support
- What is Pandas Sql Operation?

8 . The Natural Language Processing with Scikit Learn

- NLP: An Overview
- What are NLP Applications?
- About NLP Libraries-Scikit
- The Extraction Considerations
- The Scikit Learn-Model Training and Grid Search

9. The Data Visualization in Python using matplotlib

- Introduction to the Data Visualization
- What are Line Properties?
- (x,y) Plot and Subplots
- The Types of Plots

10. Web Scraping with BeautifulSoup

- Web Scraping and Parsing
- Understanding and Searching the Tree
- Know the Navigating options
- Know About Modifying the Tree
- How to Parse and Print the Document?

11. Python integration with Hadoop MapReduce and Spark

- Know Why Big Data Solutions are provided for Python?
- Describing Hadoop Core Components
- The Python Integration with HDFS using Hadoop Streaming
- The Python Integration with Spark using PySpark

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