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Basic Data Science and Data Analytics

1. Data Science Overview
- Introduction to Data Science
- Different Sectors Using Data Science
- Purpose and Components of Python
- Quiz

2. Data Analytics Overview
- Data Analytics Process
- Exploratory Data Analysis (EDA)
- EDA – Quantitative Technique
- EDA – Graphical Technique
- Data Analytics Conclusion or Predictions
- Data Analytics Communication
- Data Types for Plotting
- Data Types and Plotting
- Knowledge Check
- Quiz

3. Statistical Analysis and Business Applications
- Introduction to Statistics
- Statistical and Non-statistical Analysis
- Major Categories of Statistics
- Statistical Analysis Considerations
- Population and Sample
- Statistical Analysis Process
- Data Distribution
- Dispersion
- Knowledge Check
- Histogram

- Knowledge Check
- Testing
- Correlation and inferential Statistics

4. Python Environment Setup and Essentials
- Anaconda
- Installation of Anaconda Python Distribution (contd.)
- Data Types with Python
- Basic Operators and Functions

5. Mathematical Computing with Python (NumPy)
- Introduction to NumPy
- Demo 01-Creating and Printing an ndarray
- Class and Attributes of ndarray
- Basic Operations
- Activity-Slice It
- Copy and Views
- Mathematical Functions of NumPy

6. Scientific Computing with Python (SciPy)
- Introduction to SciPy
- SciPy Sub Package – Integration and Optimization
- Calculate Eigenvalues and Eigenvectors
- SciPy sub Package – Statistics, Weave and IO

7. Data Manipulation with Pandas
- Introduction to Pandas
- Understanding DataFrame
- View and Select Data Demo
- Missing Values
- Data Operations
- File Read and Write Support
- Pandas Sql Operation

8. Advance Data Science and Data Analytics

9. Machine Learning with Scikit-Learn
- Supervised Learning Model Considerations
- Scikit-Learn
- Supervised Learning Models – Linear Regression

- Supervised Learning Models – Logistic Regression
- Unsupervised Learning Models
- Pipeline
- Model Persistence and Evaluation

10. Natural Language Processing with Scikit Learn
- NLP Overview
- NLP Applications
- NLP Libraries-Scikit
- Extraction Considerations
- Scikit Learn-Model Training and Grid Search

11. Data Visualization in Python using matplotlib
- Introduction to Data Visualization
- Line Properties
- (x,y) Plot and Subplots
- Types of Plots

12. Web Scraping with BeautifulSoup
- Web Scraping and Parsing
- Understanding and Searching the Tree
- Navigating Options
- Demo3 Navigating a Tree
- Modifying the Tree
- Parsing and Printing the Document

13. Python Integration with Hadoop MapReduce and Spark
- Why Big Data Solutions are Provided for Python
- Hadoop Core Components
- Python Integration with HDFS using Hadoop Streaming
- Python Integration with Spark Using PySpark

14. Project 1
- Project 1 Stock Market Data Analysis
- Project 1 Demo

15. Project 2
- Project 2
- Main Project 2

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