Syllabus - Machine Learning Training

Unit 1 : Introduction To Python (6 Hours)

- Short history
- Introduction
- Features of Python
- Python Installation
- Python Interpreter
- How to Run Python
- Basic Syntax
- Input, Output Functions
- Comments

Unit 2 : The Basics (6 Hours)

- Variable and Data Types
- Numbers - Strings - Lists - Tuple - Set - Dictionary
- Operators
- Arithmetic Operations

Unit 3 : Conditional Statements (1 Hour)

- if Statement
- if...else Statement
- If...elif...else Statement
- Nested if statement

Unit 4 : Looping (1 Hour)

- For loop
- For loop with else
- While Loop
- While Loop with else statement
- Nested loops

Unit 5 : Control Statements (1 Hours)

- Break statement
- Continue statement
- Pass statement

Unit 6 : Comprehensions (1.5 Hours)

- List Comprehensions
- Set Comprehensions
- Dictionary Comprehensions

Unit 7 : Functions (2.5 Hours)

- Definition
- Function Calling
- Function Arguments
- Default Arguments
- Variable-length arguments
- Lambda functions
- Recursive functions
- Functions returning values

Unit 8 : Modules (2 Hours)

- Creating Modules
- Import Statements
- Packages

Unit 9 : File Handling (2 Hours)

- Opening a File
- Reading from a File
- Writing to a File
- Closing a File
- File Methods
- Renaming a File
- Deleting a File
- Directories in Python

Unit 10 : Exception Handling (3 Hours)

- Handling Exceptions
- Exception with arguments
- Raising an Exception
- User-defined Exception
- Assertions in Python

Unit 11 : Object Oriented Programming with Python (5 Hours)

- Overview of Classes and Objects
- Using Class
- Using Methods
- Use Object Data
- Inheritance
- Destructors
- Encapsulation
- Data hiding
- Method overriding
- Polymorphism

Unit 12 : Regular expressions (5 Hours)

- Introduction
- match() function
- search() function
- search and replace
- regular expression modifiers
- regular expression patterns
- Character classes
- special character classes
- repetition cases
- findall() method
- compile() method

Unit 13 : Database Programming (3 Hours)

- Connecting to a database
- Creating a Database
- Creating DB table Advanced Education Services
- Insert and Update Records
- Retrieve and Delete Records
- Transaction Control
- Disconnecting from a database.

Unit 14 : Python Advanced Programming (3 Hours)

- Python MongoDB concepts
- Python Tkinter programming
- Python Machine Learning concepts cdv

Unit 15 : Introduction to Machine Learning (5 Hours)

- What is machine learning
- Applications
- Supervised vs Unsupervised learning ced Education Services
- Data Processing

Unit 16 : Regression & Classification (8 Hours)

- Linear Regression
- Non-linear Regression
- K-Nearest Neighbour
- Decision Trees
- Logistic Regression
- Support Vector Machines

Unit 17 : Clustering (5 Hours)

- K-Means Clustering
- Hierarchical Clustering
- Density-Based Clustering

Unit 18 : Python Libraries for ML (10 Hours)

- Numpy
- SciPy
- Pandas
- Scikit-learn
- Matplotlib

Unit 19 : Visualization Tools (10 Hours)

- Introduction to Data Visualization
- Plotting with Matplotlib
- Area Plots,Histograms,Bar Charts
- Pie Charts,Box Plots,,Scatter Plots,Bubble Plots

Unit 19 : Image Data in Machine Learning (5 Hours)

- Image storage formats
- Scikit-image
- Smoothing and denoising
- Working with text and databases - NLTK

Unit 20 : Data analysis & Visualization project (15 Hours)

- Project

Training Fees / Duration (Rs. 2,500/- Onwards)

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