



Python Indepth Live Sessions.

Course Introduction

Introduction of Data science and its application in Day to Day life
Course overview and Dashboard description

Python Core

Introduction of python and comparison with other programming language

Installation of Anaconda Distribution and other python IDE

Python Objects, Number & Booleans, Strings, Container objects, Mutability of objects

Operators - Arithmetic, Bitwise, comparison and Assignment operators, Operators Precedence and associativity.

Conditions (If else, if-elif-else)

Loops (While, for)

Break and Continue statements

Range functions

String Objects and collections

String object basics

String methods

Splitting and Joining Strings

String format functions

list object basics

list methods

List as stack and Queues

List comprehensions



Tuples,Set ,Dictionaries & Functions

Tuples,Sets,Dictionary Object basics,Dictionary Object methods,Dictionary View Objects.

Functions basics,Parameter passing,Iterators

Generator functions

Lambda functions

Map, Reduce, filter functions

OOPS concepts & Working with Files

OOPS basic concepts

Creating classes and Objects

Inheritance,Multiple Inheritance

Working with files

Reading and writing files

Buffered read and write

Other File methods

Modules , Exception Handling & Database Programming

Using Standard Module

Creating new modules

Exceptions Handling with Try-except

Creating ,inserting and retrieving Table

Updating and deleting the data.



Flash and Api's

Flask introduction

Flask Application

Open linkFlask

App RoutingFlask

URL BuildingFlask

HTTP MethodsFlask

TemplatesFlask

Visualisation

Matplotlib

Seaborn

Plotly

Cufflinks.

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Python pandas

Python Pandas - Series

Python Pandas - DataFrame

Python Pandas - Panel

Python Pandas - Basic Functionality

Function Application

Python Pandas - Reindexing

Python Pandas - Iteration

Python Pandas - Sorting

Working with Text Data

Options & Customization

Indexing & Selecting Data

Statistical Functions

Python Pandas - Window Functions

Python Pandas - Date Functionality

Python Pandas - Timedelta

Python Pandas - Categorical Data


Python Pandas - Visualization

Python Pandas - IO Tools



Python Numpy

- NumPy - Nddarray Object
- NumPy - Data Types
- NumPy - Array Attributes
- NumPy - Array Creation Routines
- NumPy - Array from Existing Data
- Array From Numerical Ranges
- NumPy - Indexing & Slicing
- NumPy - Advanced Indexing
- NumPy - Broadcasting
- NumPy - Iterating Over Array
- NumPy - Array Manipulation
- NumPy - Binary Operators
- NumPy - String Functions
- NumPy - Mathematical Functions
- NumPy - Arithmetic Operations
- NumPy - Statistical Functions
- Sort, Search & Counting Functions
- NumPy - Byte Swapping
- NumPy - Copies & Views
- NumPy - Matrix Library
- NumPy - Linear Algebra



Exploratory Data Analysis

Feature Engineering and Selection

Building Tuning and Deploying Models

Analyzing Bike Sharing Trends

Analyzing Movie Reviews Sentiment

Customer Segmentation and Effective Cross Selling

Analyzing Wine Types and Quality

Analyzing Music Trends and Recommendations

Forecasting Stock and Commodity Prices

Python project

Web crawlers for image data sentiment analysis and product review sentiment analysis

Integration with web portal

Integration with rest api ,web portal and

Mongo DB on Azure Deployment on web portal on Azure

Text mining

Social media data churn



Thank you