TECHPATH

Research and Development Ltd.

TRAINING PROGRAM ON

FULL STACK BUSINESS ANALYTICS WITH PYTHON 🐍

Syllabus PDF

Syllabus

TECHPATH
Research and Development Ltd.

Data Analysis

01. What is Data Analysis?

02. The Role of Data in Decision-Making.

03. Types of Data Analysis (Descriptive, Predictive and Prescriptive)

04. Data Driven Decision Making in Business

05. Understanding Data-Driven Approach

06. The importance of Data in Strategic Business Decisions

07. Case Studies of Successful Data-Driven Businesses

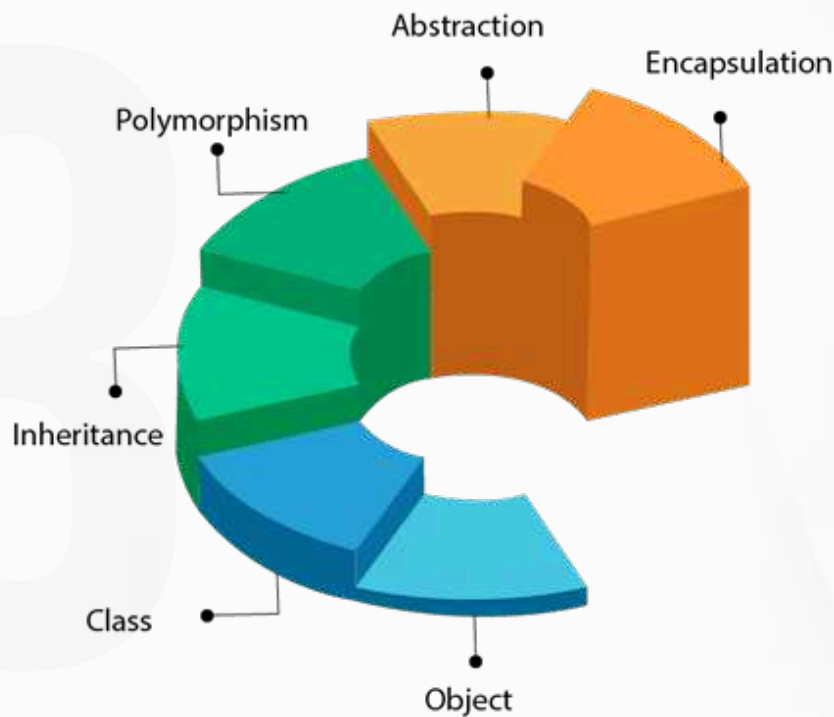## Project

Customer Churn Prediction –Analyze customer data to identify factors contributing to churn and build a predictive model to retain customers.

+91 7314344879 | contact@techpath.biz

Syllabus

TECHPATH
Research and Development Ltd.

| Python

01.	Introduction to Python and Installation of software
02.	Python Basics - Syntax, Variables and Operators
03.	String Operations.
04.	Data Structure
05.	Conditions and Control Flow
06.	Functions in Python
07.	Lambda, Map, Filter and Reduce Function

List   Tuple

Dictionary   Sets

📞 +91 7314344879 | ✉ contact@techpath.biz

Python

Class Objects

Inheritance Polymorphism

Project

Employee Payroll System –Develop a Python program to calculate salaries, taxes, and deductions.

Syllabus

| Library

Library

06. **Data Cleaning Processes**
- Fixing rows and columns
- Impute/Remove Missing Values
- Fixing Invalid Values
- Feature Scaling

07. **Exploratory Data Analysis**
- Univariate
- Bi-variate
- Multi-variate Analysis
    - (Python use case to Analyse Medical Insurance Charge for different patients)

Project

Stock Price Prediction Using Pandas & Numpy –Use historical stock data to forecast future stock trends.

+91 7314344879 | contact@techpath.biz