## USING PYTHON PROGRAMMING



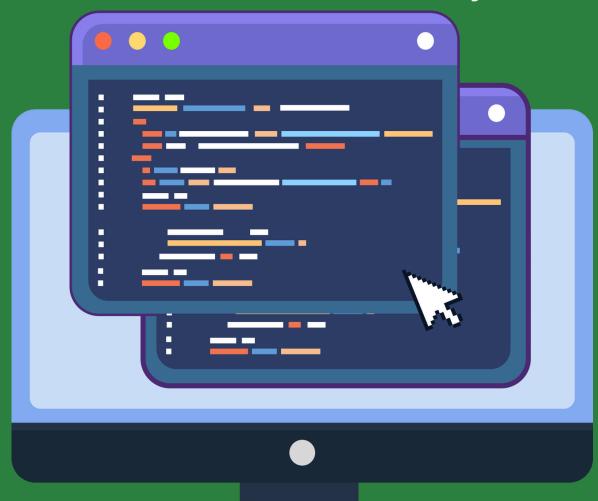


unlock insights, discover patterns, and drive smarter decisions with the power of data



## GET TRAINED GET PLACED

Hands-on training with real projects
Boost your career and land your dream job



01. INTRODUCTION DATA ANALYTICS & PYTHON

Data Analytics & Python is the process of extracting, cleaning, analyzing, and visualizing data using Python libraries like Pandas, NumPy, and Matplotlib to gain meaningful insights, support decision-making, and solve realworld business problems efficiently

02. DATA HANDLING WITH PYTHON

Data Handling with Python involves collecting, storing, cleaning, and managing datasets using Python libraries like NumPy and Pandas, enabling efficient manipulation, transformation, and preparation of structured/unstructured data for analysis, visualization, and decision-making in real-world applications

03. DATA CLEANING & PREPARATION

Data Cleaning & Preparation involves removing errors, handling missing values, treating duplicates, fixing inconsistencies, managing outliers, and transforming raw data into structured, accurate, and consistent datasets—ensuring reliability, quality, and readiness for meaningful analysis and visualization

04. DATA VISUALIZATION

Data Visualization is the graphical representation of data using charts, graphs, and plots. It helps identify trends, patterns, and insights quickly. Tools like Matplotlib, Seaborn, and Plotly in Python make complex data easy to understand

**05.** DATA ANALYTICS APPLICATIONS & CASE STUDIES

Data Analytics Applications & Case Studies focus on realworld problem solving through Exploratory Data Analysis (EDA), statistical methods, time series forecasting, and industry-specific projects in finance, healthcare, and marketing, enabling hands-on learning and practical decision-making skills