DATA ANALYST PROJECT EXECUTION ROADMAP

01. NDA Submission

Before accessing the dataset, students must sign an NDA to ensure confidentiality and ethical handling of data.

02. Project Kickoff

Students will receive a problem statement, dataset, and data dictionary. They must interpret the business objective and dataset structure.

03. Data Segregation and Initial Preparation

Identify variable types and separate categorical vs numerical columns.

04. Data Preprocessing in Python

Clean the dataset by handling missing values, outliers, duplicates, and fixing data types.

05. Exploratory Data Analysis (EDA) and Visualization

Use Python libraries (Pandas, Seaborn, Matplotlib) to explore data patterns visually and statistically.

06. Document Insights and Decisions

Summarize insights derived from EDA and make initial interpretations.

07. Power BI Dashboard Development

Import the cleaned data into Power BI to create an interactive dashboard showing KPIs and trends.

08. Insights and Business Impact Document

Based on dashboard findings, describe how insights impact the business and propose actionable recommendations.

09. PowerPoint Presentation

Prepare a slide deck for presenting the complete project: problem, cleaning, EDA, visuals, dashboard, and insights.

10. Viva Preparation

Review all work. Be ready to explain cleaning logic, insights, visual choices, and business relevance in Q&A