

DATA ANALYST INTERNSHIP



Task 5: Exploratory Data Analysis (EDA)

- Objective: Extract insights using visual and statistical exploration.
- Tools: Python (Pandas, Matplotlib, Seaborn)
- Deliverables: Jupyter Notebook + PDF report of findings
- Hints/Mini Guide:
 - a. Use .describe(), .info(), .value_counts()
 - b. Use sns.pairplot(), sns.heatmap() for visualization
 - c. Identify relationships and trends
 - d. Plot histograms, boxplots, scatterplots
 - e. Write observations for each visual
 - f. Provide summary of findings

Dataset: TITANIC DATASET (CLICK FOR LINK) / OR ANY RELAVENT DATA SET OF UR OWN.

Outcome: Gain skill in finding patterns, trends, and anomalies.

Interview Questions:

- 1. What is EDA and why is it important?
- 2. Which plots do you use to check correlation?
- 3. How do you handle skewed data?
- 4. How to detect multicollinearity?
- 5. What are univariate, bivariate, and multivariate analyses?
- 6. Difference between heatmap and pairplot?
- 7. How do you summarize your insights?

★ Task Submission Guidelines

• Time Window:

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10:00 PM

• Self-Research Allowed:

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

• X Debug Yourself:

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

• No Paid Tools:

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

• CitHub Submission:

Create a new GitHub repository for each task.

Add everything you used for the task — code, datasets, screenshots (if any), and a **short README.md** explaining what you did.

L Submit Here:

After completing the task, paste your GitHub repo link and submit it using the link below:

SUBMISSION LINK



