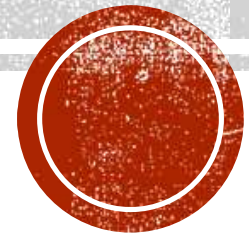


EXPLORATORY DATA ANALYSIS ON TITANIC DATASET

DATA CLEANING, VISUALIZATION, INSIGHT EXTRACTION



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OBJECTIVE:

- Perform Exploratory Data Analysis (EDA).
- Extract meaningful insights using visual and statistical exploration.
- Tools used: Python (Pandas, Matplotlib, Seaborn)



TOOLS & LIBRARIES USED:

- Pandas — Data loading, manipulation
- Numpy — Numerical operations
- Matplotlib, Seaborn — Visualization



DATASET OVERVIEW:

➤ Dataset: Titanic Test Dataset

➤ Loaded using Pandas (read_csv)

➤ Inspected using .info(),.describe(),.value_counts()



DATA CLEANING:

- Dropped the **Cabin** column (many missing values)
- Handled missing values:
- Filled **Age** with median
- Filled **Fare** with median



EXPLORATORY DATA ANALYSIS (EDA):

➤ Displayed dataset [\(head\)](#)

➤ Checked missing data

➤ Checked missing data



VISUALIZATIONS:

- Correlation Heatmap ([sns.heatmap\(\)](#))
- Pairplot if applicable ([sns.pairplot\(\)](#))
- Histograms, Boxplots (if you add them)



INSIGHTS & OBSERVATIONS:

- Findings from EDA
- Correlations observed
- Trends and anomalies detected



INTERVIEW QUESTIONS **(PREPARATION):**

- Importance of EDA
- Plots to check correlation (heatmap, pairplot)
- Handling skewed data
- Detecting multicollinearity
- Difference between heatmap and pairplot



CONCLUSION:

- Dataset cleaned and visualized successfully.
- Ready for further modeling or prediction.

