

TITANIC

ANALISIS DATA EKSPLORASI (EDA) MENGGUNAKAN PYTHON

HALO, I AM ALDI PUTRA PRATAMA

I will do an analysis of the Titanic dataset.



PROBLEMS

- Many Titanic passenger records have unknown survival status.
- The dataset contains duplicate entries and missing values.
- We need to identify patterns to understand who was more likely to survive.

OBJECTIVE

- Clean the dataset.
- Analyze the data distribution.
- Discover which factors most affected passengers' chances of survival.

COMPLETION STEPS

- **IMPORT DATA & DATA PREVIEW**

Importing datasets into the environment using the pandas library.

- **INITIAL DATA INSPECTION**

- To understand the structure of the data
- To identify the types of columns (numeric, categorical, or text)
- To get a quick view of the typical values in each column

COMPLETION STEPS

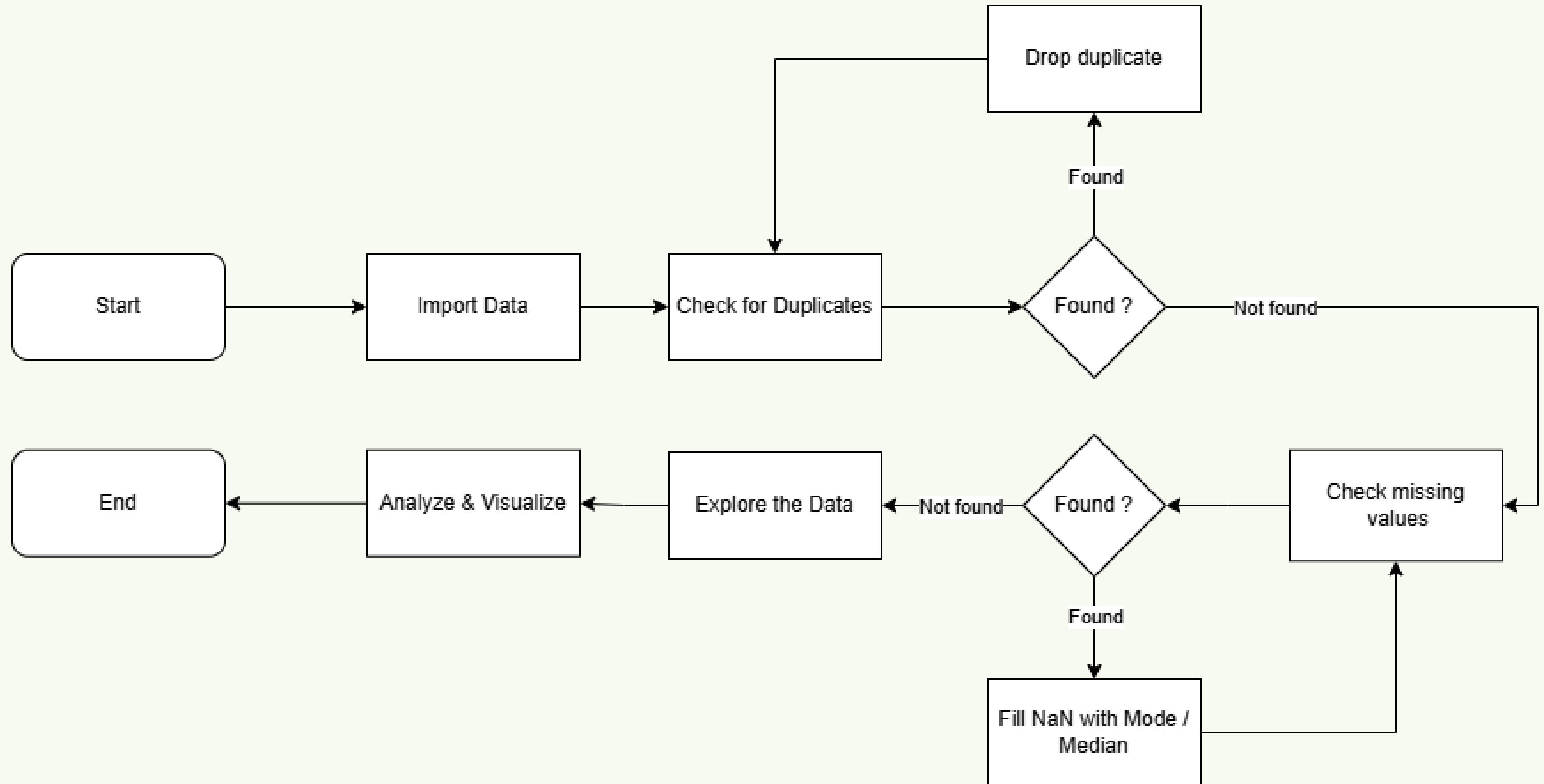
- **DUPLICATE DETECTION AND HANDLING**

- Counting duplicate data
- Displays and sorts duplicate rows by frequency.
- Duplicates are removed to ensure accurate analysis.

- **MISSING VALUE DETECTION AND HANDLING**

- Check for missing values in each column.
- Displays the number and percentage of missing data.
- Object columns are filled with the mode (the most frequently occurring value).
- Numeric columns are filled with the median (to avoid bias from outliers).

FLOWCHART



CONCLUSION

- The Titanic dataset initially contained duplicate records and missing values, which were successfully cleaned.
- Exploratory Data Analysis (EDA) revealed that survival was influenced by gender and age group.
- Data cleaning is a crucial step before performing further modeling or predictions.

