❖ Day-8:-Task:-Data Preprocessing

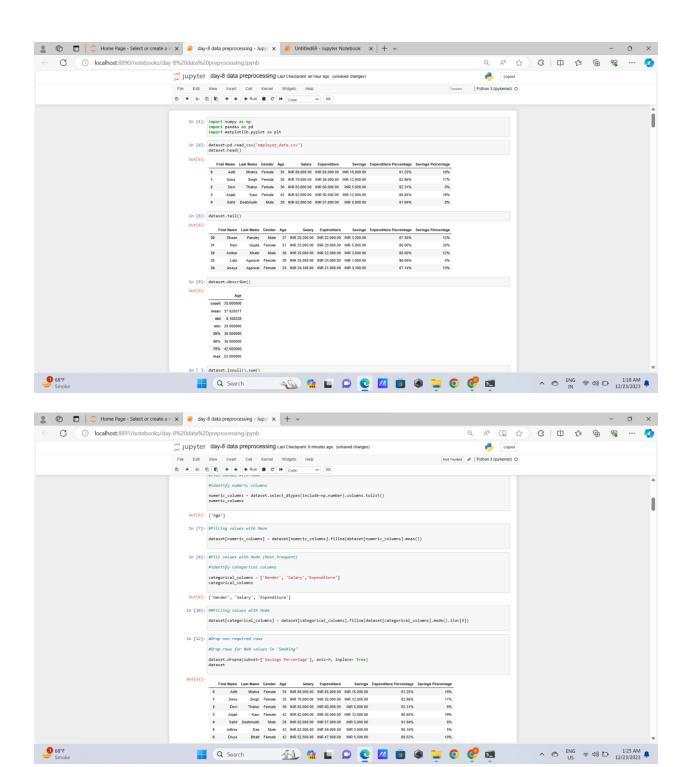
Data Preprocessing:

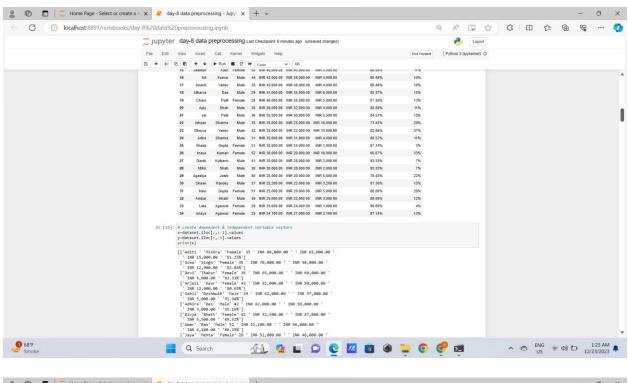
Data preprocessing is a crucial step in the data analysis and machine learning pipeline. It involves cleaning and transforming raw data into a format that is suitable for analysis or model training.

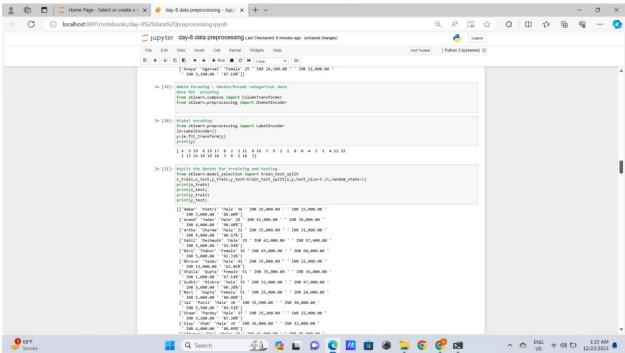
- Data processing working involves:
 - I.Handling Missing Data: Identify and deal with missing values.
 - II.Handling Duplicate Data: Detect and remove duplicate records.
- III. Handling outliers: Address outliers through methods like z-score or IQR.
- IV. Feature Scaling: standardize or normalize numerical features.
- V.Categorical Variable Encoding: convert categorical variable into numerical format.
- VI. Handling Text data: Transform text data for analysis or modeling.
- VII.Feature Engineering: create or transform features for improved performance.
- VIII.Data splitting: divide the dataset into training and testing sets.
 - IX.Data Transformation: Apply necessary transformations for modeling.
 - X.Handling imbalanced data: Address class imbalance if needed.
 - XI.Data Visualization: visualize data for insights.

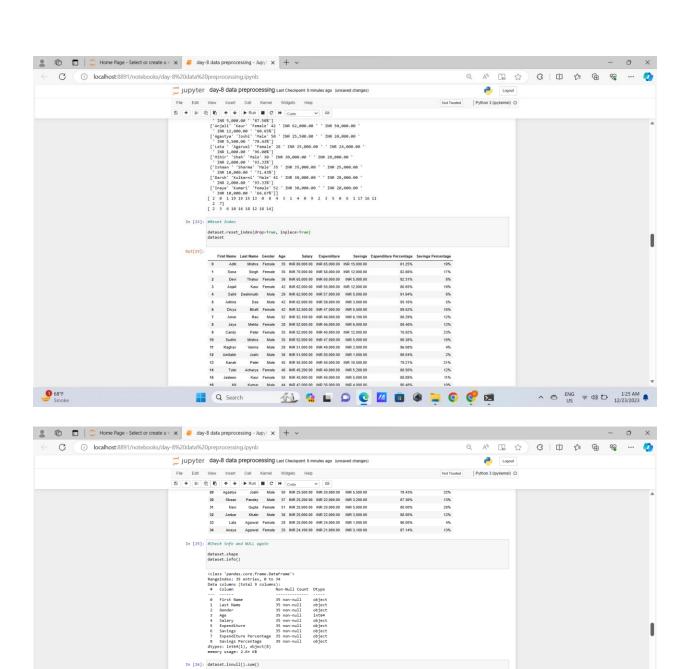
*Description:

I'm thrilled to apply this newfound knowledge to real-world scenarios, and the prospect of further honing these skills through the Skill Boost Internship Program adds an extra layer of excitement. Here's to the journey ahead and the exciting challenges awaiting in the Skill Boost Internship Program(www.Batweb.com).









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Out[26]: First Name 0
Last Name 0
Gender 0
Age 0
Expenditure 0
Savings 0
Expenditure Percentage 0
Savings Percentage 0
dtype: int64

68°F Smoke In [27]: #feature scaling import pandas as pd from sklearn.preprocessing import MinMaxScale

