Data Collection and Preprocessing Phase

Date	22 June 2024
Team ID	Team - 740093
Project Title	To Predict Consumer Price Index
Maximum Marks	6 Marks

Data Exploration and Preprocessing Report

Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for preprocessing tasks like normalization and feature engineering. Data cleaning will address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.

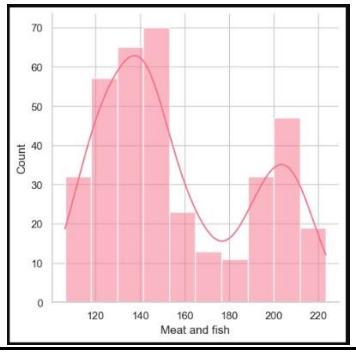
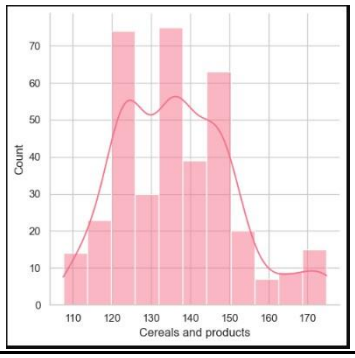
Section	Description
Data Overview	<u>Descriptive statistics:</u>

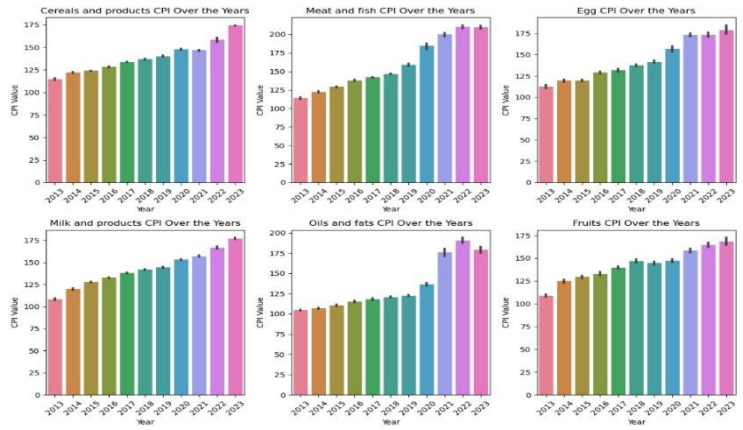
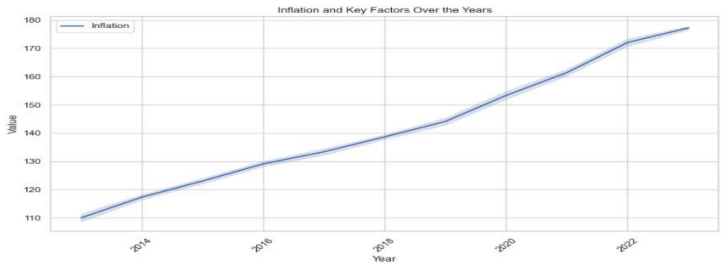
```
#Load the dataset
cpi_data=pd.read_csv("All_India_Index_july2019_20Aug2020_dec20_2.csv")
```

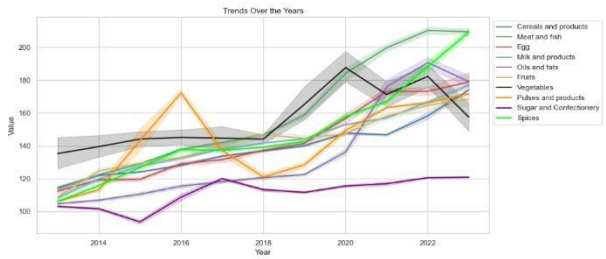
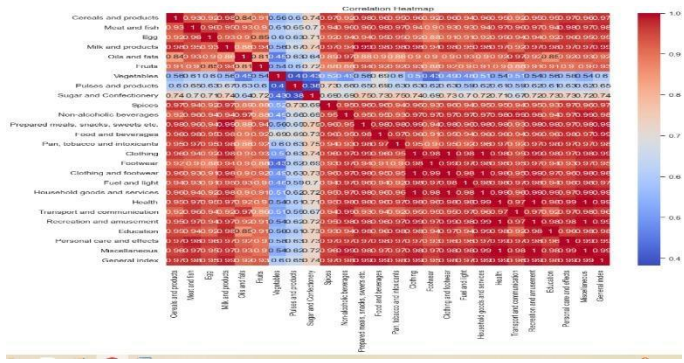
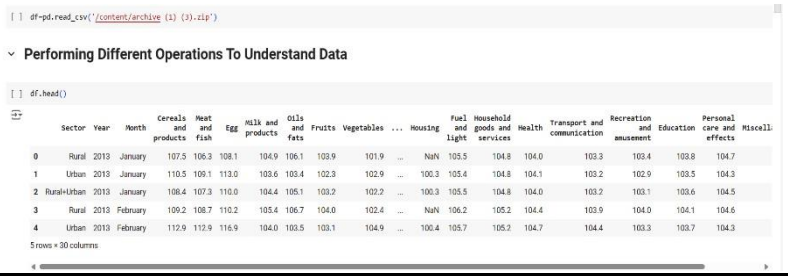
```
cpi_data
```

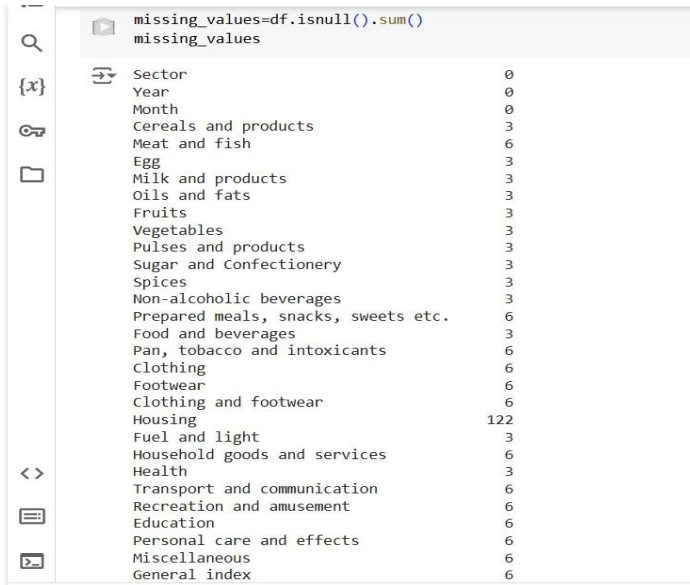
	Sector	Year	Month	Cereals and products	Meat and fish	Egg	Milk and products	Oils and fats	Fruits	Vegetables
0	Rural	2013	January	107.5	106.3	108.1	104.9	106.1	103.9	101.9
1	Urban	2013	January	110.5	109.1	113.0	103.6	103.4	102.3	102.9
2	Rural+Urban	2013	January	108.4	107.3	110.0	104.4	105.1	103.2	102.2
3	Rural	2013	February	109.2	108.7	110.2	105.4	106.7	104.0	102.4
4	Urban	2013	February	112.9	112.9	116.9	104.0	103.5	103.1	104.9

Univariate Analysis	

Bivariate Analysis	 

Multivariate Analysis	 
Outliers and Anomalies	-
Data Preprocessing Code Screenshots	
Loading Data	

Handling Missing Data	
Feature Engineering	Enhance the accuracy and the robustness of the CPI predictions
Save Processed Data	-