



Data Collection and Preprocessing Phase

Date	22 June 2024
Team ID	739768
Project Title	To Predict The consumer Price Index
Maximum Marks	6 Marks

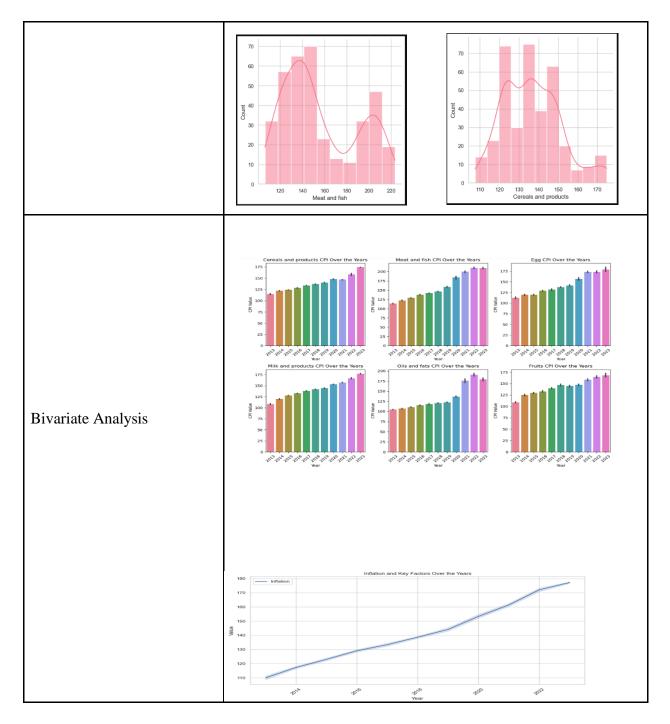
Data Exploration and Preprocessing Report

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	Des	scription										
	Descriptive statistics:											
	#Load the dataset cpi_data=pd.read_csv("All_India_Index_july2019_20Aug2020_dec20_2.csv")											
	cpi_data											
Data Overview		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												

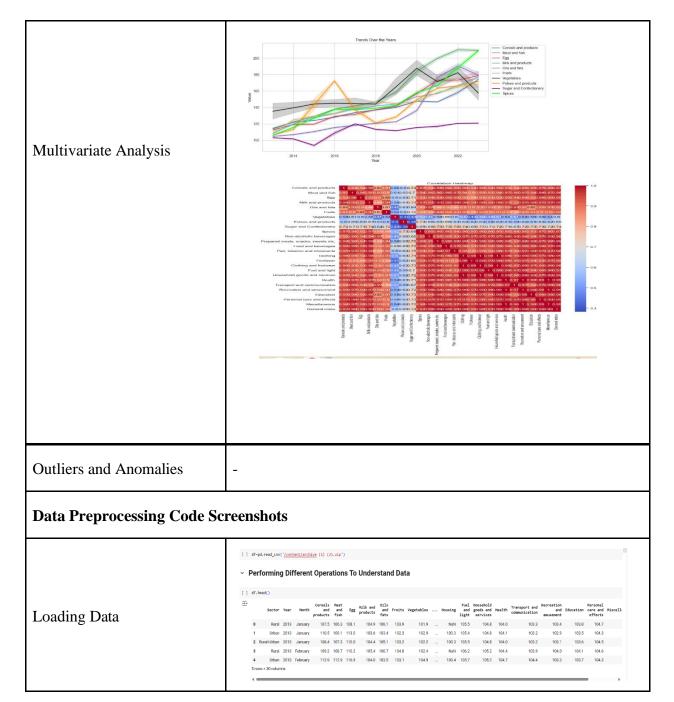
















Handling Missing Data	missing_values=df.isnull().sum() missing_values Sector Year Month Cereals and products Meat and fish Egg Milk and products Oils and fats Fruits Vegetables Pulses and products Siugar and Confectionery Spices Non-alcoholic beverages Non-alcoholic beverages Non-alcoholic beverages Non-alcoholic deverages Non-alcoholic
Feature Engineering	Enhance the accuracy and the robustness of the CPI predictions
Save Processed Data	-