Consumer price index on South India

Problem Statement

My problem statement about to find insights of consumer price index of southern Indian states. To find important causes, necessary solution for these problems by using data analysis. The base year is taken as 2012.

Data Collection

The dataset was collected from "e- Sankhyiki Portal ". The data is filtered according my requirement. The dataset mainly consists of index and inflation values which is major source for analysis of CPI.

Data Preprocessing

The collected data is preprocesses for cleaning the data. In dataset the groups and subgroups attributes are present, some groups don't have subgroups which by default represented as "*". In data cleaning changed them to value "others" for making no loss of necessary data. Uses descriptive statistics (mean, median, mode, standard deviation) to fill null values in attributes.

Data Visualization

Identify patterns, correlations, and trends in the data. Perform feature selection based on importance. It is key part of my data analysis where the necessary data is represented in visualization. For this I have used matplotlib, seaborn libraries.
I have used bar plot, scatter plot etc. The necessary data insights are derived in this part of data analysis. The visualization is done to find the key insight over the years. Found causes and impact of CPI. How it effected the individual state economy.