Analysis of Climate change and its effect on GDP of countries 2015-2017

This report is based on the GDP, Total Population, Female Population Percentage and Country which is being mapped across different areas for different nations for period of 2015 - 2017 and the source of data is World Bank API. The World Bank data set is a subset of data taken from the main World Bank collection of development indicators, compiled from officially recognised international sources.

Key Points

a) **GDP**: GDP data for nations from 2015 to 2017 are included
b) **Total Population**: Total population data for nations from 2015 to 2017 are included
c) **Female_Population_Percentage**: Data on female population percentages in countries from 2015 to 2017 are included.
d) **Countries**: Data on country mapping is included

Histogram of GDP

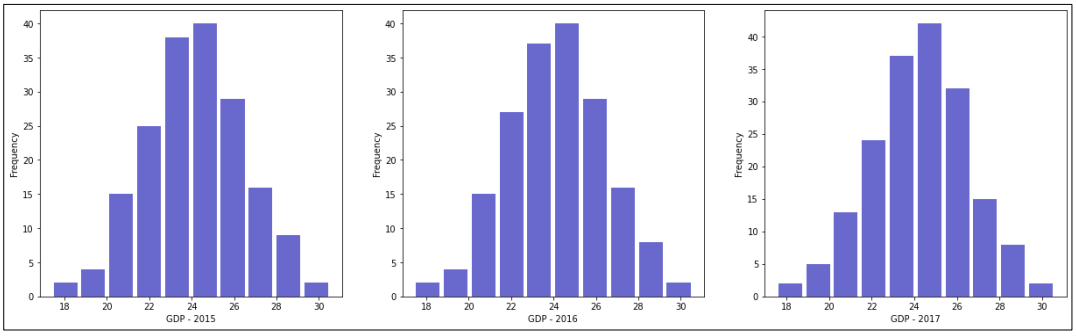

Figure 1 Histogram of GDP for year 2015, 2016 and 2017

Female Population Graphs

- The years 2015-2016-2017 have a similar kind of distribution; this is due to the incremental nature of the nations that are performing well, which exhibit the same type of outcome in successive years.

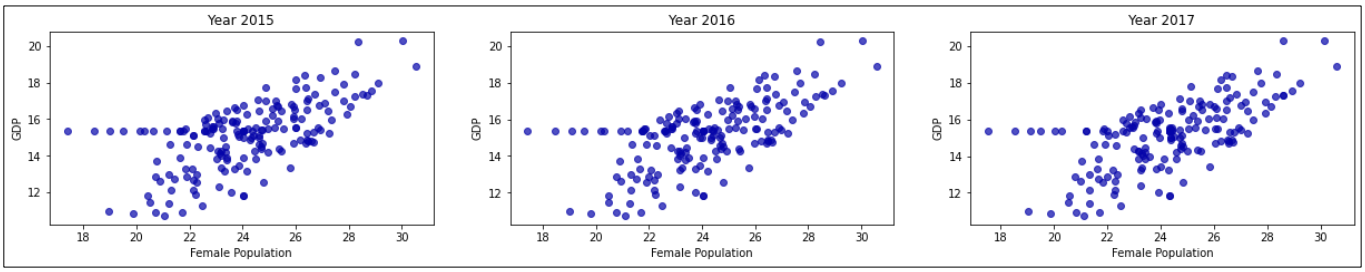

Figure 2 Female Population Graphs for years 2015, 2016 and 2017

- GDP for all areas is calculated in an incremental manner (i.e. GDP-2017 > GDP-2016 > GDP-2015).

- The GDP of North America and the Asian Region is substantially greater when compared to other areas; this is because North America has The United States and the Asian Region has China, both of which contribute to the outcome.

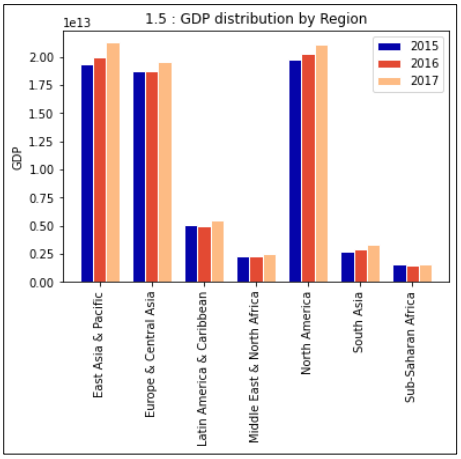

Figure 4 GDP Distribution by region

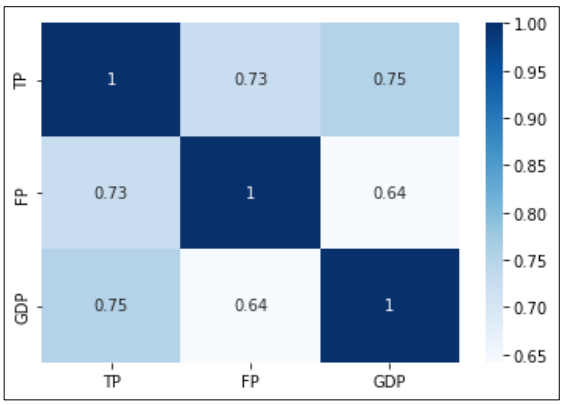

Figure 3 correlation heatmap between Total Population-Female Population-GDP

Correlation Matrix

Displaying the correction matrix between

- TP: Total Population
- FP: Female Population
- GDP

Overall population vs GDP

As we can see, there is a strong statistically significant association between the country's female population and its GDP.

We can notice a linear pattern in the data when we compare total population to GDP.

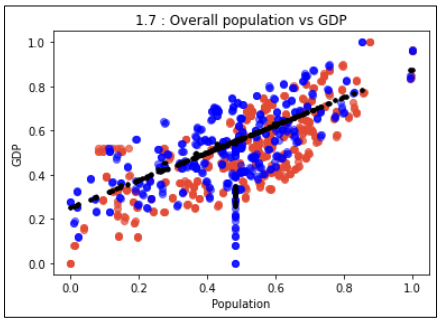

Figure 5 Overall population vs GDP