World Economic Indicator Project : SatyamKumar

Storyline:

So, the very first step is to understand the business problem and observe the dataset.

So, i was given a dataset of GDP of different regions for different year and i needed to analyse and give the conclusion analysis accordingly

- No such search key was found which is common and unique in all sheets
- So, firstly, we proceeded with the creation of the Unique Key by concatenating region plus year. unique key created.

Now Merging all the sheets

- to make a single merged worksheet with the help of VLOOKUP function.
- Now all the data is in one place.

Now, Handling for missing values:

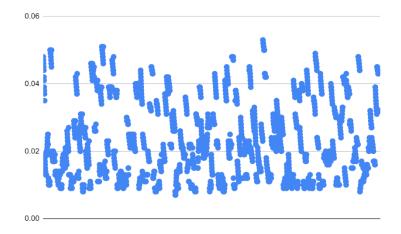
If the number of missing values is relatively small than total no of datasets then we can remove / ignore those values.... but here we cannot do so.

Data cleaning.... some data formatting (heading bold, colour)

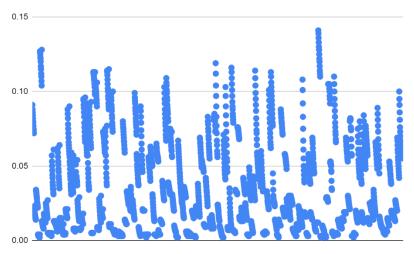
Now, Checking for Outliers

Checked if any outlier is present ...through scatter chart

- No outliers in gdp
- No outliers in health expenditure
- This(below) is of birth rate (no outlier detected), because there is no such strange points which is too much out of range very far from other points.

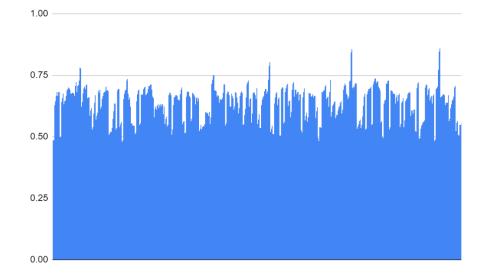


For infant mortality(no outliers detected)



No outliers in most of the column (detected via charts)

Checking below for outliers in Population via Scatter Chart .



Now, time for Feature Engineering

- Made GDP/capita
- CO2 emission/capita
- Energy consumption/capita
- Tourism outbound/capita
- modified Internet usage to percentage format
- · Created tourism outbound and inbound per capita

Now, performed Bivariate analysis of:

- GDP/capita with features like business tax rate
- GDP/capita with features like ease of doing business, urban population, internet usage and a lot of other features as well.

Now, performed Univariate analysis:

• Via average, mean, median, mode and histograms as well

Now the analysis was as follows:

- Correl between GDP of the region is weak negative with the Lending Interest Rate(-0.098)
- The average life is positively correlated (+0.053437) with the health expenditure (Higher the health expenditure, higher the average lifetime of the citizens)

Conclusions:

So, Finally the Insights are:

(Executive Summary)

- GDP/capita is directly proportional to Tourism Inbound/capita
- GDP is directly proportional to Business tax rate
- GDP is directly proportional to ease of doing business.
- More urban population represents more internet usage and thus higher GDP.
- Average Life Expectancy is directly proportional to Expenditure on health.

- The GDP of the Asia region was found to be highest, followed by Europe, then the US and so on.
- GDP of the region is positively correlated to Ease of business.
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- The region with higher GDP per capita had more percentage of urban population

Also,

- Average Life Expectancy of Male is Highest in: Europe
- Average Life Expectancy of Female is Highest in: Europe
- Average life expectancy of male globally = 69.29266
- Average life expectancy of Female globally = 75.25
- Other such required mean, median, mode, trimmean, etc were also calculated during the work flow of the process. (Univariate analysis).