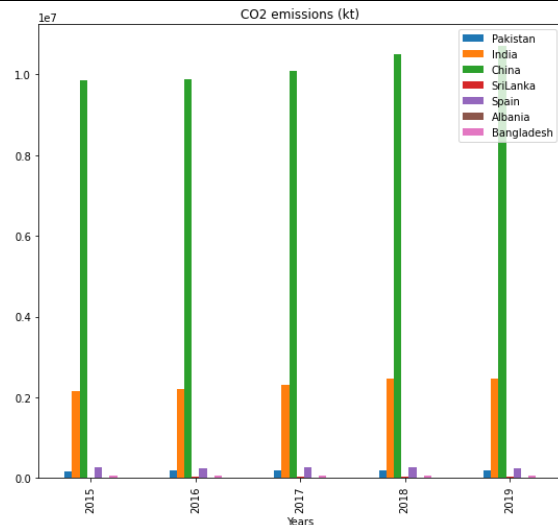
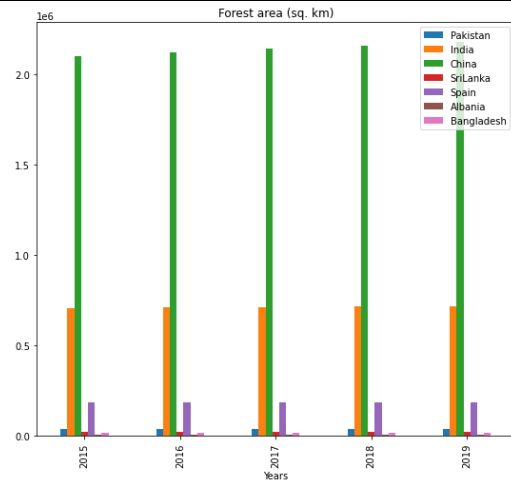


Assignment 2: Statistics and Trends.

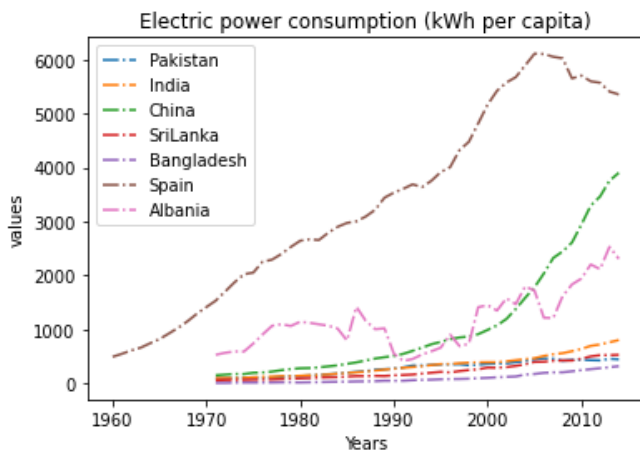
For this analysis, I have chosen more than one dataset containing records about more than a few international locations of the world. All the datasets used in this evaluation have been taken from the World Bank's Global Data Repository. The datasets exhibit CO2 emissions of all the countries round the globe in the decades, from 1960 to 2021. There are additionally some 'Indicators' supplied in the dataset(s). The evaluation discovered some correlations between the elements and the reasons in the back of them have been investigated.



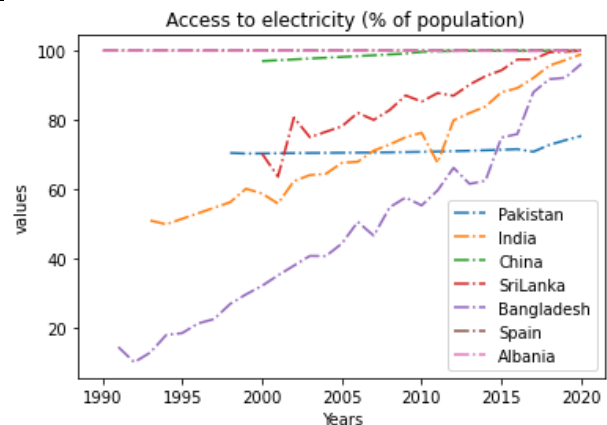
The Bar Plot indicates statistics for 5 years from 2015 to 2019 that India and China make contributions greater to carbon emissions than the relaxation of different chosen nations and this style is now not decreasing. Every than this vogue is Increasing rather of reducing which is now not true for world warming



The bar plot indicates the statistics of chosen seven international locations it indicates that woodland vicinity in populated nations there is associated with the woodland region and carbon emission. In India, it's alarming that carbon emission is growing which can be viewed in the heatmap below. When Population enlarges deforestation take vicinity which makes bigger carbon emission

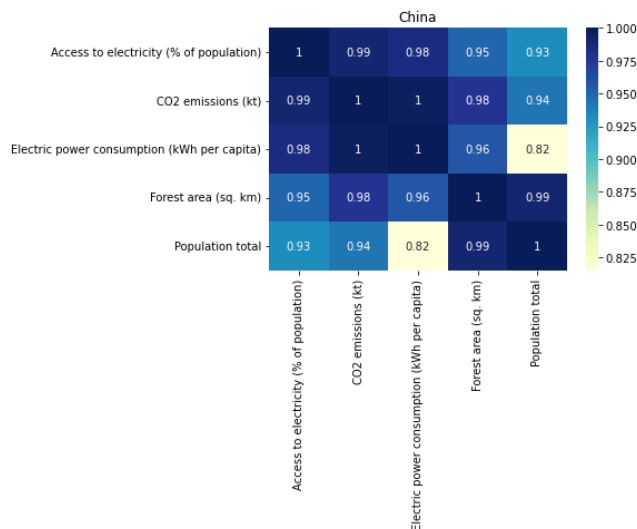


The line design indicates that electric-powered energy consumption through seven chosen nations and Spain indicates the most electricity consumption and considered that China unexpectedly superb soar by way of a leap. Pakistan has a regular line in which potentially Pakistan doesn't contribute to a great deal in carbon

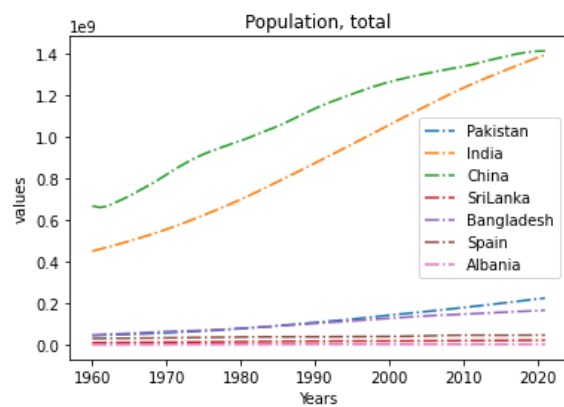


The agricultural land in the line sketch indicates that Pakistan has the biggest agricultural land which is associated with greater methane emissions. This is the most applicable indicator because the different international locations have no extend in agricultural land, however, they exhibit regular growth.

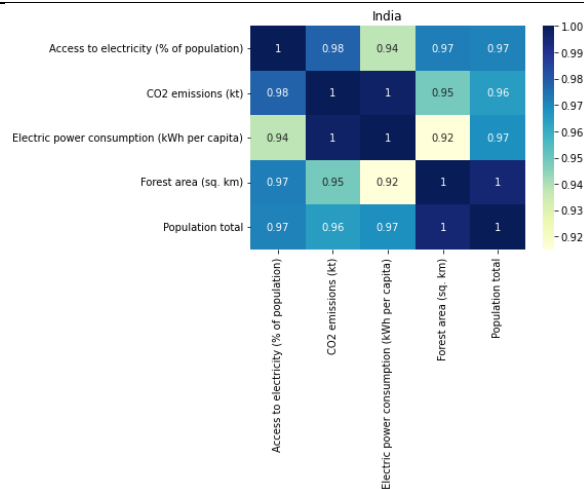
emission, and it additionally exhibits a small decline in strength consumption. Which is a Good Sign for the international warming decline.



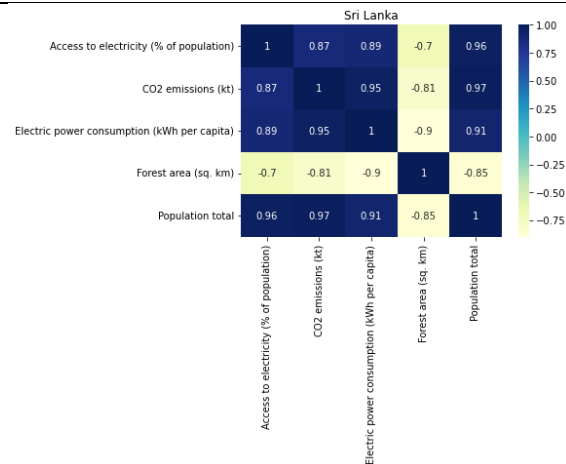
From the heatmap correlation of China it can be determined that the electric-powered electricity consumption is elevated with populace increase. It's ideal to correlate with carbon emissions. To produce electric powered energy from different sources will increase greater carbon emission



The line layout indicates the complete populace of chosen international locations from 1960 to 2020. The diagram truly indicates that China and India are the most populated countries, and this fashion non-stop upward no different us of is even shut to them. Population is the important supply or driver leading to carbon emissions and extended international warming. It is absolutely discovered from the plan from the pinnacle proper bar sketch that China is the biggest carbon emitter and the 2nd one is India



The warmness map exhibits India's records associated with carbon emissions and all the elements exhibit a truly robust correlation with the carbon emission in accordance with India's data. Carbon emission is positively correlated with the electric-powered energy consumption and populace associated with the wooded area region



The warmness map indicates the correlation between international warming factors. Carbon emission is positively correlated with electric-powered electricity consumption and the complete population. Increase in the populace is very hazardous due to the fact it is associated with carbon emission and electric-powered strength which growing the world emission.

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Data Development: <https://data.worldbank.org>

Data Link: <https://data.worldbank.org/topic/climate-change>

Databank: World Development Indicators

GitHub Repo: <https://github.com/aasimghaffar/7PAM2000-Applied-Data-Science-2-Assignment-2-Statistics-and-trends>

Data xlsx File: <https://github.com/aasimghaffar/7PAM2000-Applied-Data-Science-2-Assignment-2-Statistics-and-trends/blob/main/data.csv>