

EXECUTIVE SUMMARY

Productivity is an interesting measure for determining the economy of the country. We define Productivity as per capita income per hour. We can obtain some noteworthy insights on a country's growth as a whole while examining productivity changes. There could be several attributes that affect the productivity of a particular region and these attributes might belong to different categories like Environmental, Political, Socio Economical, etc. Here, we propose an experiment to analyze this relationship with different measures like Air Pollution, Excessive Drinking, Diabetes, Obesity, Insufficient Sleep, Poor Mental Health, etc. The higher values of these measures denote a negative trait of a given region. So, our hypothesis is: Higher these measure values, lower will be the productivity. This relationship is seen among most of the attributes like Air Pollution, Insufficient sleeping, smoking & rate of violent crime in a state! We establish this relationship by visually examining our graphs of Productivity vs Measure Names & also the correlation matrices of these measures & productivity. We see that there are a few exceptions like Excessive Drinking of Alcohol, which shows deviation from the general trend. We see that as consumption of alcohol increases in different states of the US, their productivity also increases(The juries are out after the lockdown!) Air Pollution is the measure that has the highest impact on the productivity of a state in the US. This means that if there is an increase in Air Pollution in a particular region, there will be a decrease in the productivity of that region. Also, states with high violent crime rates have a lower productivity average. So it's important to stay in a safe neighborhood for your mental & physical safety. Similarly, we analyzed all other variables in our study against the productivity of a state & tried to establish a relationship amongst them, To sum it all up, there are some factors that go unnoticed in helping a country & its people grow both economically & personally. We deep-dived into some of these factors & tried to establish a relationship between them & a country's productivity. We derived some fascinating insights on the way & validated some of our most interesting hypotheses.