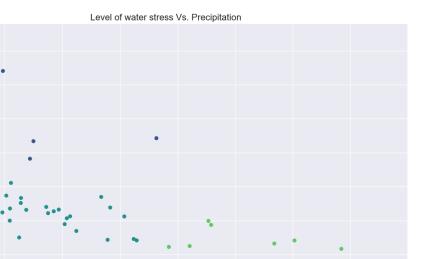
EFFECTS OF WATER STRESS LEVELS ON CLIMATE

Drought

There is research evidence that this cycle is a major player in climate change [2]. Let's observe the effects, below is a graph of precipitation and level of water stress of

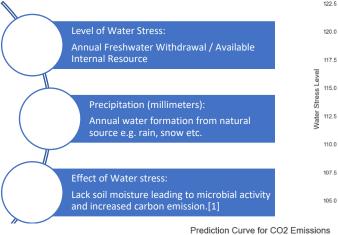
Level of Water Stress



100 Level of water stress some countries.

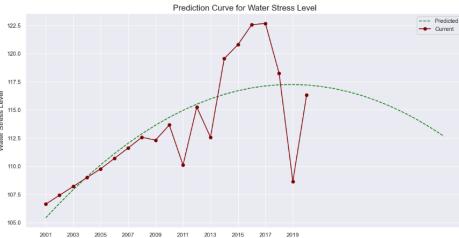
There are three clusters of countries, we'll be observing countries with low precipitation (less than 1000 mm annually) and high waterstress (greater than 75).

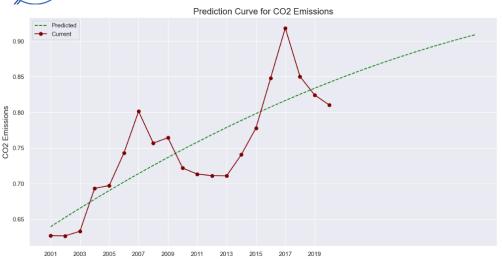
One of the countries from the subset is Pakistan with varying degrees of water stress, reaching extreme values between 2013 and 2019. Let's observe the trends of water



3000

2500





stress to solidify the observation. Although water stress plays a role in the country's climate, we can see in the carbon emission trends of Pakistan that the impact is in significant because with a prediction for 2030 showing a drop in water stress levels carbon emission is observed to rise at a steady pace.

References:

- 1. https://www.nature.com/articles/nature04514
- 2. https://link.springer.com/article/10.1007/s00382-007-0340-z

Github: https://github.com/MShoaibManzoor/ADS-Assignment-3