

# Applied Data Science

## Assignment 2

Name: Noman Amin

Student ID: 22017418

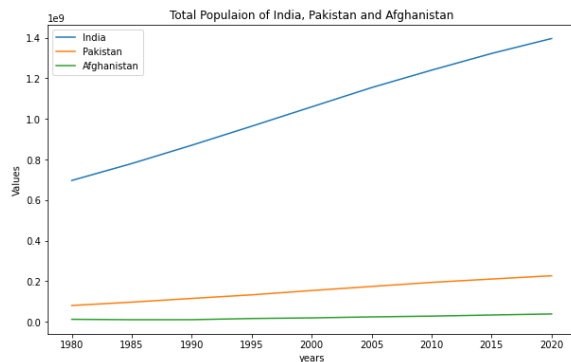
Dataset: <https://data.worldbank.org/topic/climate-change>

Github Link: <https://github.com/nomanmehar5/ADS-assignment-2>

We are collecting data from 3 Asian countries from the World Bank dataset. My data set has the following indicators:

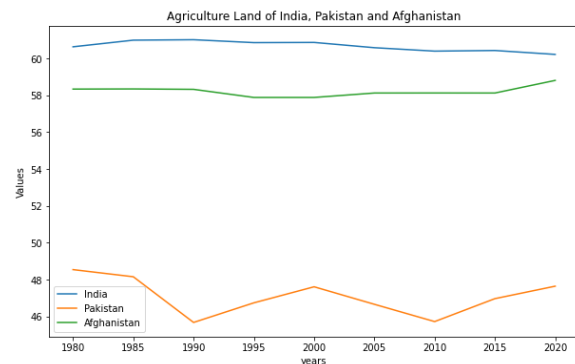
- Total population
- Agriculture Land
- Arable Land
- Forest Land

### Total Population:



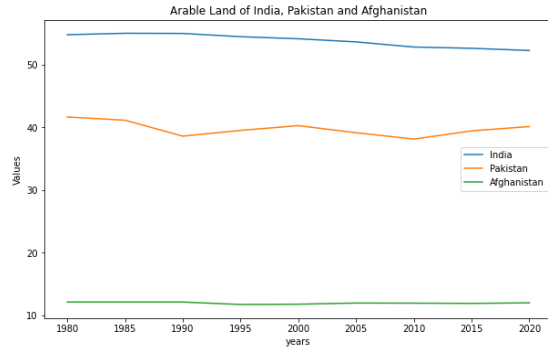
This line graph titled "Total Population of India, Pakistan and Afghanistan" shows us that India's Population is increasing rapidly every year. Pakistan's population is also increasing but steadily. And the population of Afghanistan is increasing at a very slight rate.

### Agriculture Land:



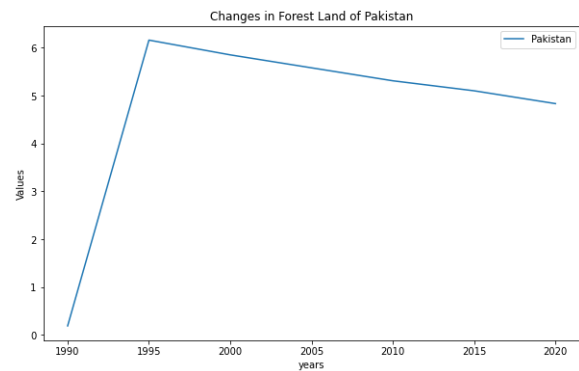
This line graph shows us that India and Afghanistan have higher values of Agriculture land than Pakistan. Afghanistan's agricultural land values start increasing from 2015 onwards. Pakistan's Agriculture Land values fluctuate throughout from 1980.

## Arable Land:

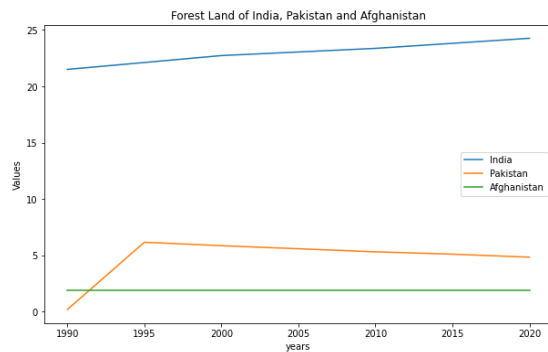


The line graph illustrates us that India have the more arable land then the other two countries but India has a slightly downward trend and Pakistan's values fluctuate but Afghanistan's values remain the same.

## Sudden Changes in Forest Land of Pakistan:



## Forest Land:



In this line plot Pakistan has a strange jump in Forest land between 1990 and 1995. India has a higher rate of Land and increasing. Afghanistan forest land remains same.