**4.4 Capstone project overall story in your own words. Min 1000 words.**

In the duration of 3 weeeks we were asked to given submission of this Capston Project that is - Crimes in India. We were already given the data (10 CSV files which were compireses of States/UR, District , Year(2001- 2012) and Diffrent Crime head.And we were asked to collect the data on

* The population of each state.
* Literacy Rate in each state
* Area of each state

Initially I was Confuse about data collection part as but as soon as I started working on this Project I Start to understand and made some assumption as Population, Litercay rate that was given only for 2001 and 2011 so I calculated the growth rate and found the Population, Litercay rate for Every State per year.

It took so long as I added Few columns for my analysis in the dataset like Population in Rural/Urban Area, Total male, Tota Female, Population Litercay, Male Literacy, Female Literacy, Area of each state and Diiferent Crimes Head Like Murdeer, Riots, DOwry deaths, Raes, Arson, Total Crimes against Women/Children/SCs/STs,

After colecting data from 2001 to 2012 for each column I entered in to Second Phase .

* Phase 2 was about Analysis of State/Ut wise for diiferent Crimes and found the States/UT which were prone to crimes and which were less prone to crimes.I USed Different Plots and charts to analyse the dataset .
* I read the csv file , saved into dataframe and checked for Info(), null value and proccesded accordingly.
* I came to know about the plotly library in python which made my plots so interactable. Plotted Different Charts, Barplot, Scaaterplots, Line Plots and wrote down my analysis.
* I also calculatd Crime rate for each state from 2001 to 2012 and
* Phase 3 is about SQL Opertaion - Insertion into table and then Extacting data as per the query
* Applied different SQL queries to get the inforamtion. Saved the inforamtion in dataframe and analysed that as well.
* Pahse 4 is about clustering implementataion as the files that were already given we joined them and made a new dataset nd applied KMEANS algorithm for clustering.Got 3 Cluster - Sensitive, MOderate , Peaceful CLuster and Reason for crimes in Sensitve states and how can we stop that Crimes in those states.