**Project Report Summary**

Project Title: Analysis on Smart cities in India and finding the co-relation b/w sex ratio and Literacy Rate of female. For managerial relevance we can analyse the cities for companies businesses.

After analyzing the data I came to the conclusion that-

* Bigger states of the country have large number of smart cities.
* Northern States of the country have high male population rate

##### Not surprisingly the capital cities of the big economic states have the biggest population.

##### Surat has the highest male population percentage among Top 50

##### Graduates percentage is highest among the capital cities of the country

##### Even by male and female graduates percentage it is highest among the capital cities.

##### Effective literacy rate of male increases as effective literacy rate of female increases. It has positive correlation

#### 75% of the 500 Cities have less than 275K Literates

#### 75% of the 500 Cities have less than 38K Population

##### Great result! More than ****70%**** of the sates had a median literacy rate of more than 85%! The next step I wanted to take was to see how does the distribution of sex ratio behave in the lower and higher literacy ranked states.

##### Better literacy performing states have better sex ratio!!

##### There is a very good evidence of a linear fit between sex ratio and literacy rate.

##### There is a positive correlation between the sex ratio and literacy rate.

##### Though not **very** strong, there is still an effective correlation and also the p-value is pretty small which again gives us a good statistic to decide that the correlation is not 0 amongst the two variables.

##### There is very poor linear correlation between the total number of graduates and the effective literacy rate.

* [Educate Females for better sex ratio](https://www.kaggle.com/lakshmypm/educate-females-for-better-sex-ratio)!!