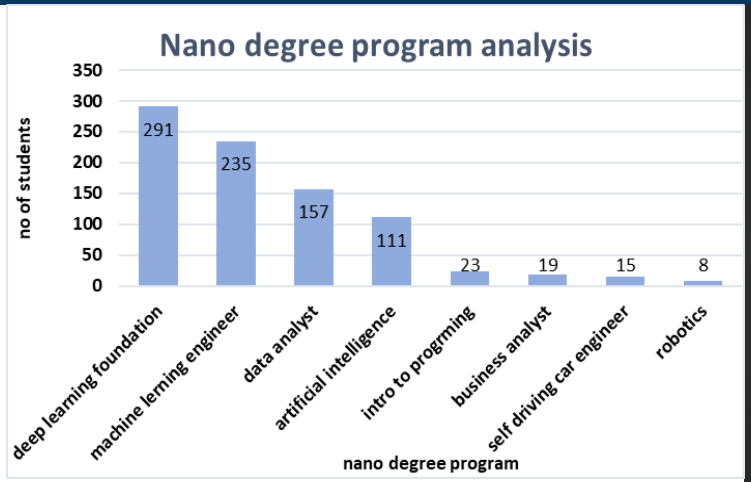
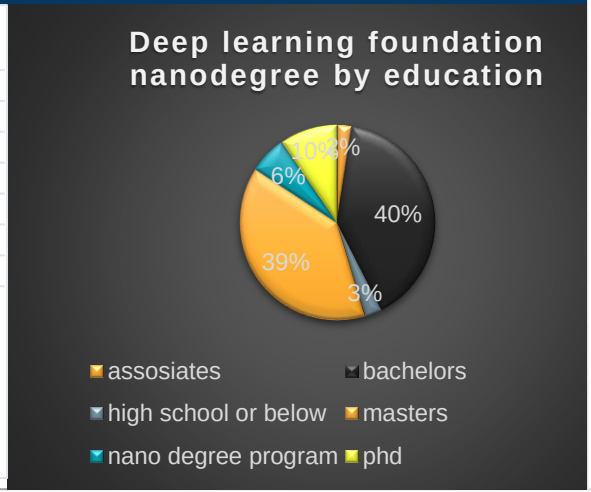
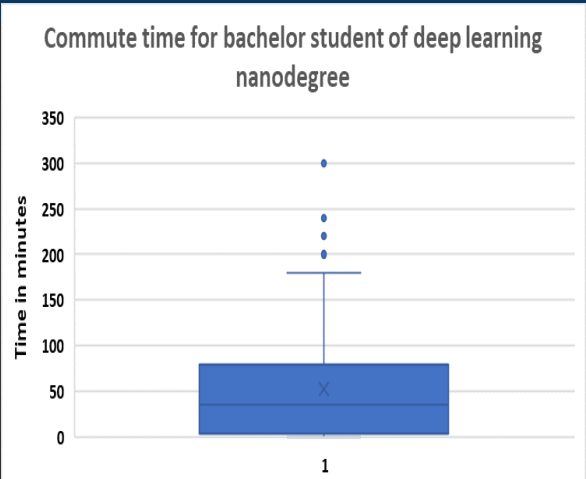
The most common Nanodegree program represented in the survey result







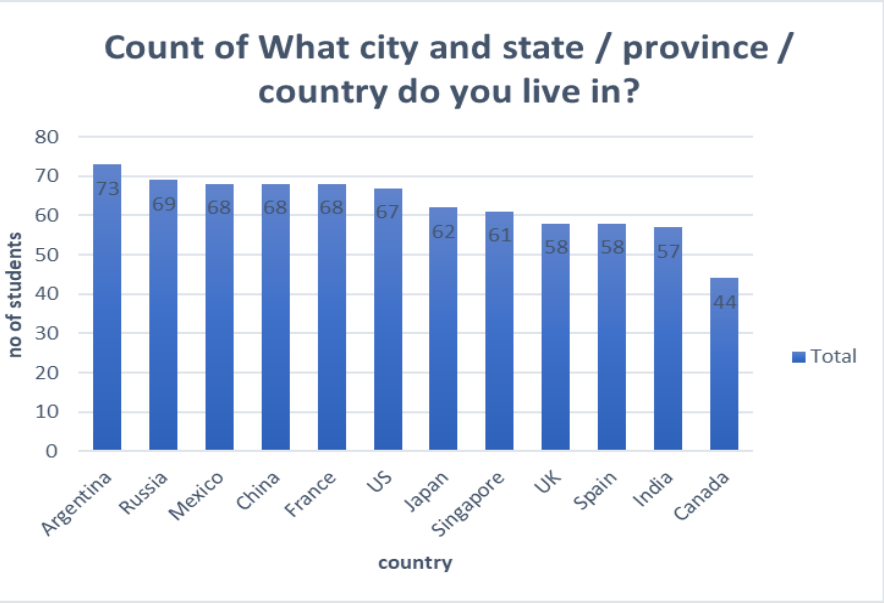
Here is the clustered column chart which represent student count for each nanodegree program. We can see from chart the most common nanodegree program represented in the survey result is ***deep learning foundation***. And second most common is ***machine learning engineer***.

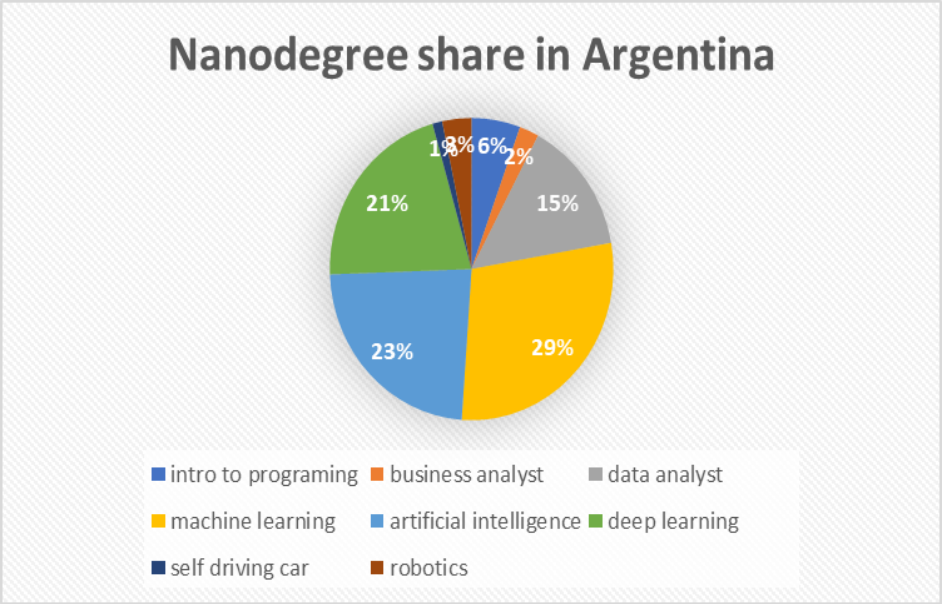
Further I analysed deep learning foundation nanodegree by education using pie chart . I found out of total no of student enrolled for deep learning foundation nanodegree ***highest 40% are form bachelors education***. And ***2nd highest 39% are from masters.***

Among ***40%*** bachelors students who enrolled for deep learning foundation nanodegree ***84% are employed*** and ***16% are unemployed***.

For those ***40%*** bachelor students who enrolled for deep learning foundation nanodegree the ***range for commute time is 300 minutes*** and the ***average*** commute time is approx. ***53 minutes*** and ***std. dev***. Is approx. ***52 minutes*** . This high std. dev is because of outliers present in commute time (as we can see from box plot for some students commute time is more than 200 minutes), if we remove outliers std. dev. will decrease.

The most common countries/cities where students live

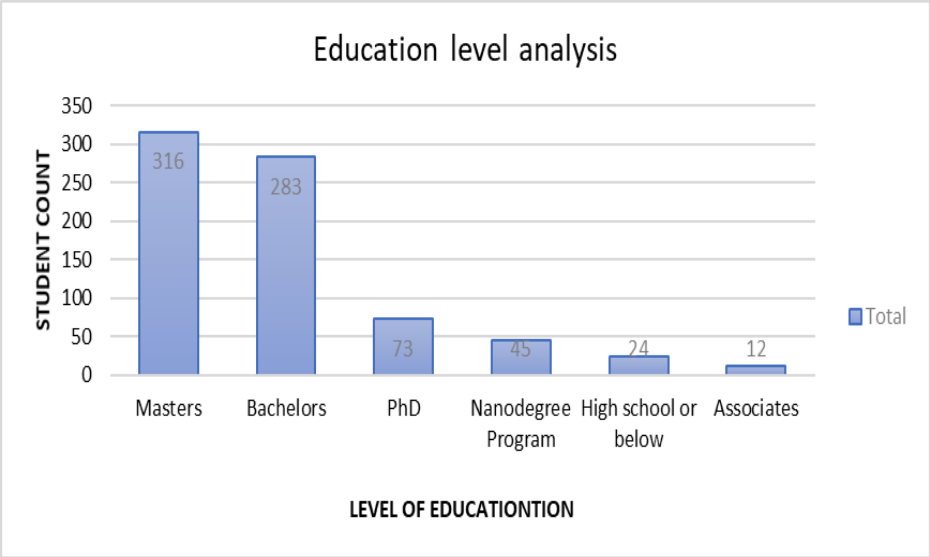


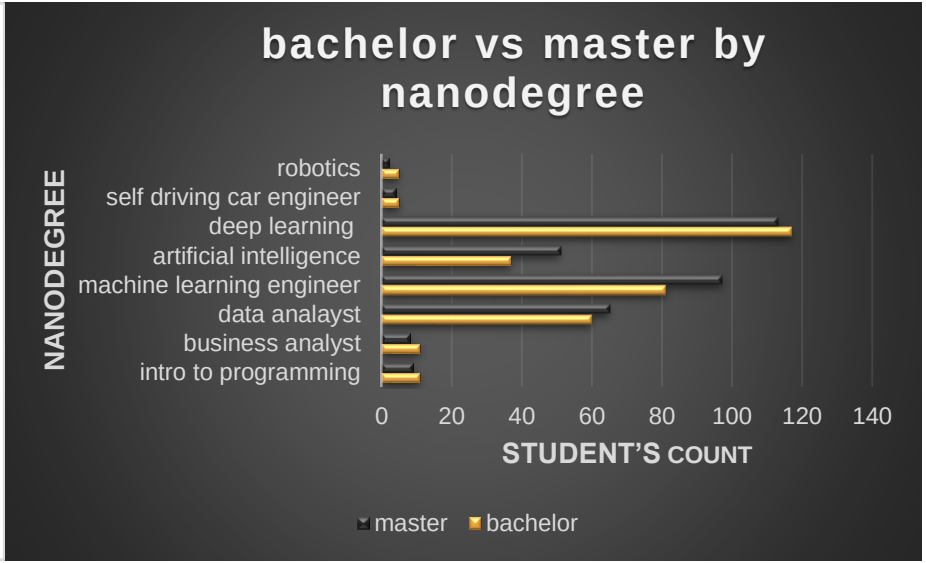


Here is the cluster column chart which represent count of what country do students live in and it shows most students(73) lives in ***Argentina.***

Further using pie chart I analysed top three nondegree program taken by Argentina students, namely ***machine learning – 29%, artificial intelligence -23%,*** and ***deep learning foundation – 21%.***

The highest level of education for most students

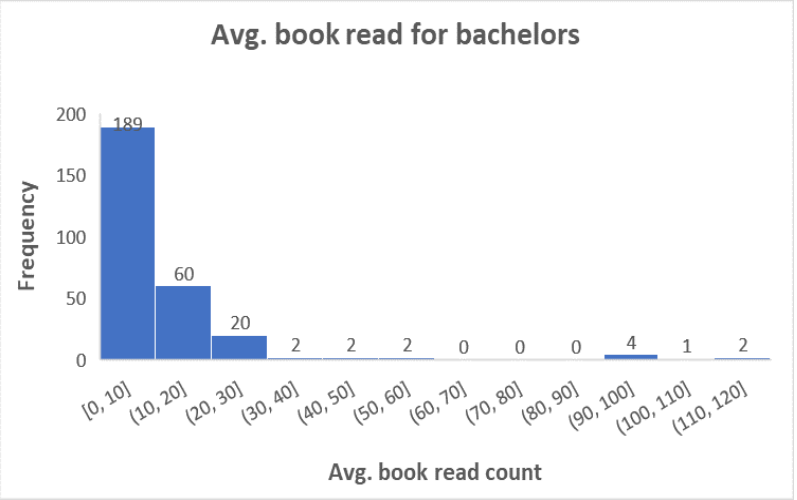


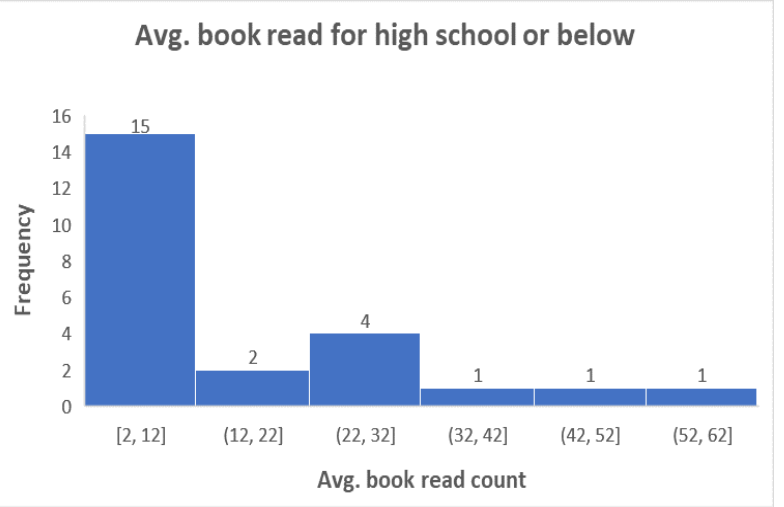


Here is the cluster column chart which represent highest level of education for most students who filled Udacity survey . The ***highest*** no of students ***(316)*** are with ***masters*** education and the ***second highest*** are with ***bachelors (283).***

Further I plotted bar chart to compare bachelors vs masters by nanodegree. I observed ***data analyst, machine learning engineer and artificial intelligence*** have more ***masters*** students enrolled compare to bachelors.

Average book read by bachelor vs high school or below





Here are histograms for bachelors vs high school or below.

Both distributions are appears to be right skewed. Therefore the mean for each is higher than median.

The mean for high school or below is approx. 16 and the mean for bachelors is approx. 12. so we can see mean for high school students is more than bachelors students. It means high school students read more book than bachelors.

However std. deviation for high school or below is approx. 16 and for bachelors it is approx. 18. therefore the variability in avg. book read per yr. for bachelor student is more. This may be because of outliers with average book read of more than 100 for bachelor student.(as we can see in above bachelors histograms)