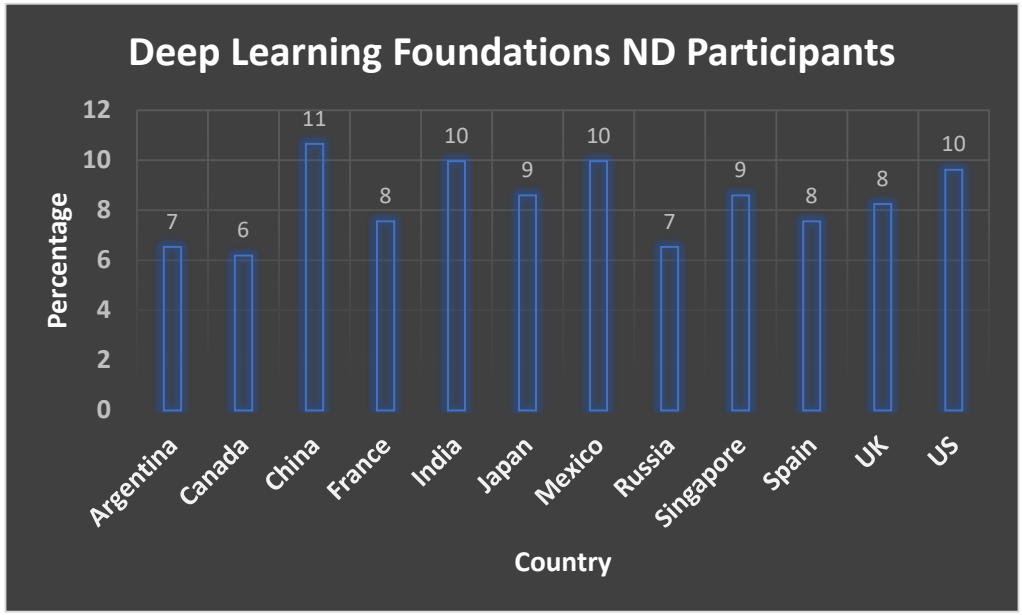
Project #2

Analyze Survey Results

Countries Of Deep Learning Foundations ND Participants



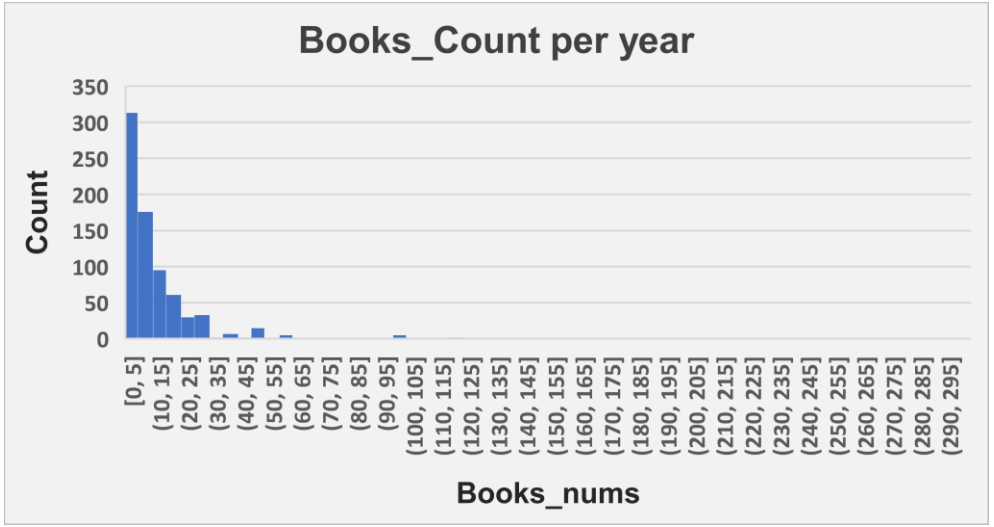
What countries have the highest participants percentage for students of the survey in deep learning foundations ND?

From a total of 752 respondents to the survey, 291 students were enrolling in deep learning foundations ND.

China with a total number of 31 students represents 11% of the total number of participants in the ND. Each of India, Mexico, and the USA come after China with 10% for each and Japan and Singapore with a percent of 9 %.

By looking at the par Chart which represents categorical data of the number of students enrolling in Deep learning Foundations ND from 12 different countries, we can notice that the most frequent country or the Mode is China with the highest number of Participants in the ND.

Read (or listen to) Books_Count for students per year



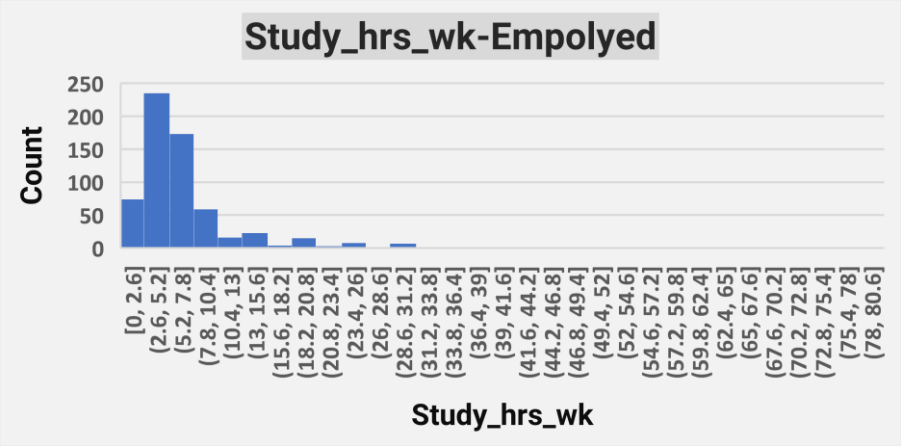
What is the average number of reading books per year for survey respondents students?

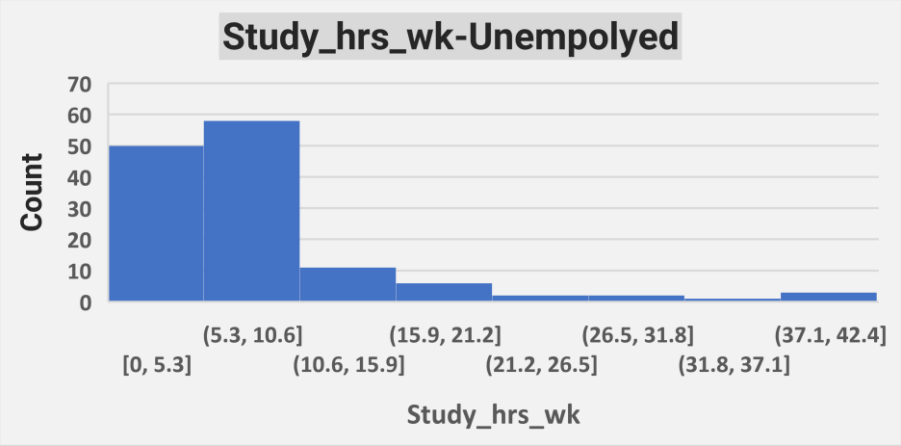
The average number of books read per year is approximately 12 book. However, it should be noted that the St. deviation is 19.36 which is high. A high standard deviation means that the values are spread out.

The diagram is right-skewed, pulling the mean to the right of the median of 8. the median is probably a better indicator of center in this case. The most common number of books read per year (Mode) was 10.

Although after excluding some of the unreasonable numbers of books/year through the cleaning process, we still got a range of 300. It would seem that there is a significant outlier which pulling the data Mean more to the right. It appears as though students either read a lot of books or not so many. This is reflected in the large standard deviation.

Studying hours per week for Employed and Unemployed students





Does the number of studying hours per week change if the survey respondents students is employed or not?

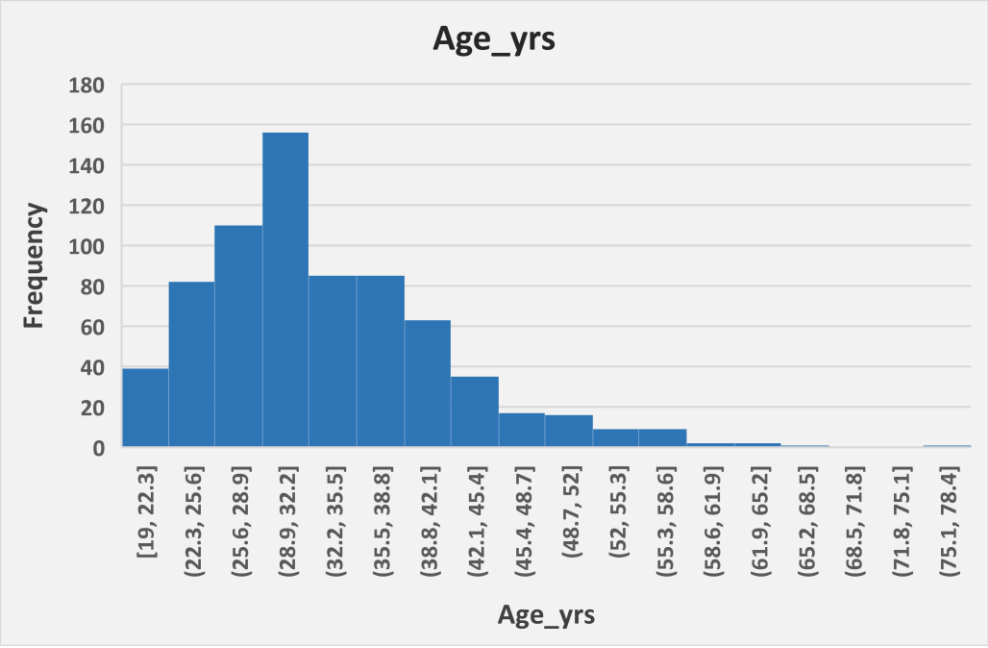
These two histograms represent studying hours per week for each of employed and unemployed students.

The distribution is Right-Skewed for both, and the Mean is higher than Median and Mode which are both with the value of 6 hours for both group which give us a better options for measuring the center than the mean.

The average number of study hours per week for the Unemployed students(8.26) is higher than that of the employed group(6.71) due to the presence of some students with high studying hours among the unemployed group.

The standard deviation for the unemployed group(7.71) is slightly higher than the standard deviation of the employed group (6.29), therefore the variability of the studying hours per weak for the Unemployed group is higher than that for the employed group.

Students age range



What is the age range and average for survey respondents students ?

The range of the age in years for the participants' students in the survey became relatively low (59) After the cleaning process for some illogical ages (Age of 0, 1 and 118 years old), whilst using the range as a measure of spread is limited, it does set the boundaries of the scores. This can be useful if you are measuring a variable that has either a critical low like the age of 1-year-old or high threshold like the age of 118 years old(or both).

The mean age (33.17) is higher than the median age (32) because of a few students that were quite older than the rest.
The relationship between the median and mean confirms the skewness (to the right) in the graph.

The low standard deviation(8.36) means that most of the values are very close to the average.