

4 Questions Explored

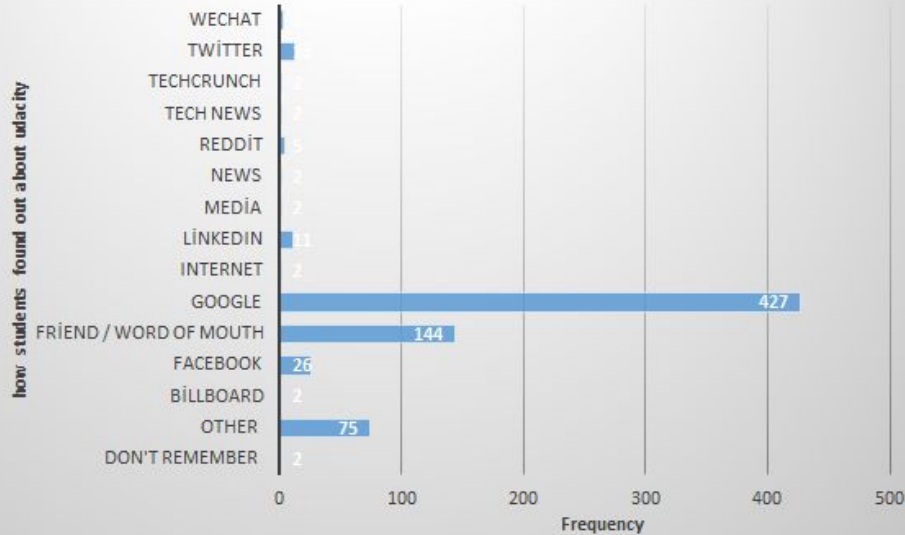
- 1) What is the most common way students find out about Udacity?
- 2) Do students complete projects faster if they get less sleep?
- 3) Do students who want to grow skills for a current role complete projects faster than students who just have a general interest?
- 4) Do students love Udacity?

Data Cleaning Performed

- All questions where the answer lives across multiple columns, combine into a single column and remove the original columns. Such as the CourseGoal column, where students answered why they were taking the course and others.
- Replace Strange characters like "œ and € with nothing
- Used filters to delete values that looked unreasonable. Like ages of 0 and values like 50hrs of sleep per night, though a day is made up of 24hrs
- Deleted blank columns when drawing charts like the scatterplot.
- Change all the column names to have no spaces, but still be informative
- Change the birthdate column to an age column by finding the number of days from that date to today, and then dividing by 365.

What is the most common way students find out about Udacity?

How Most Students Heard about Udacity

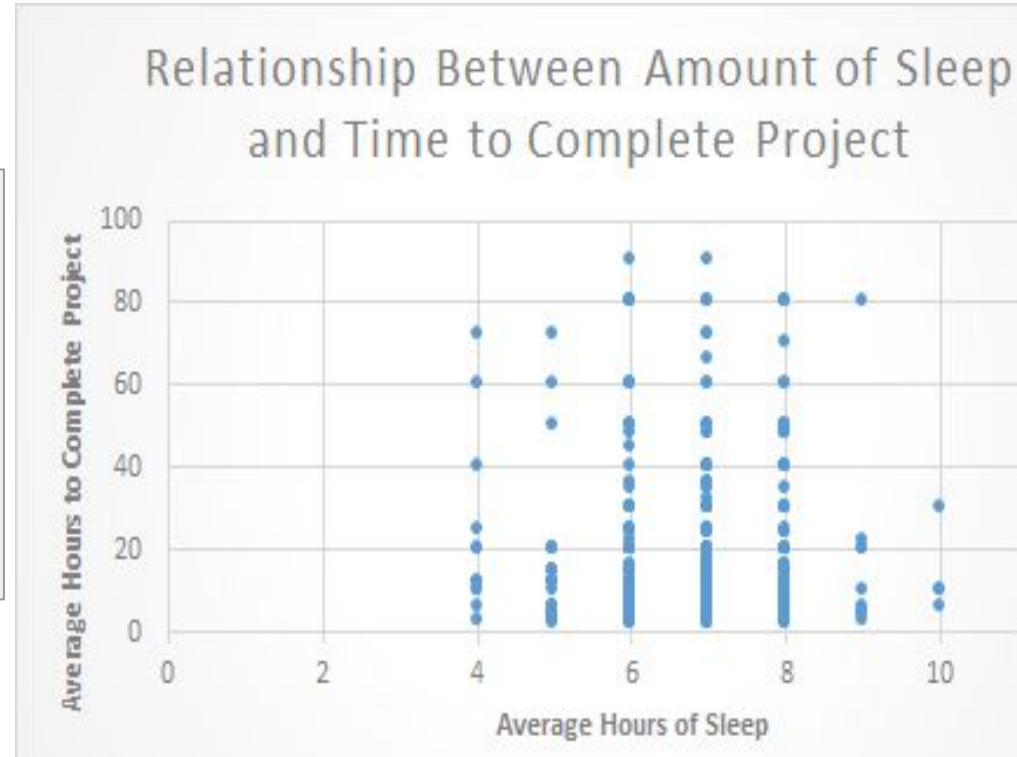


We can see from the visualization that the most common way students who answered the survey found out about Udacity is **Google**. 59% of the students mentioned Google.

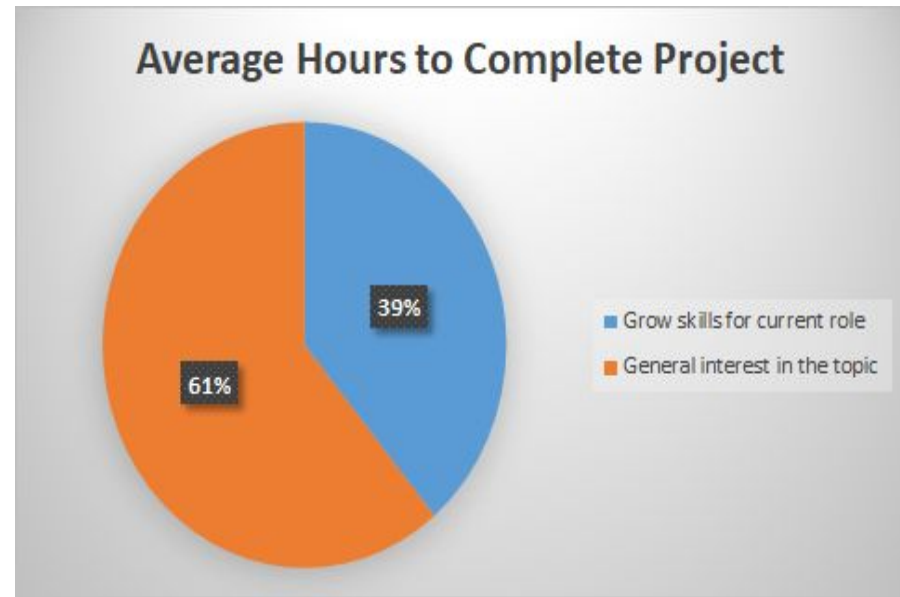
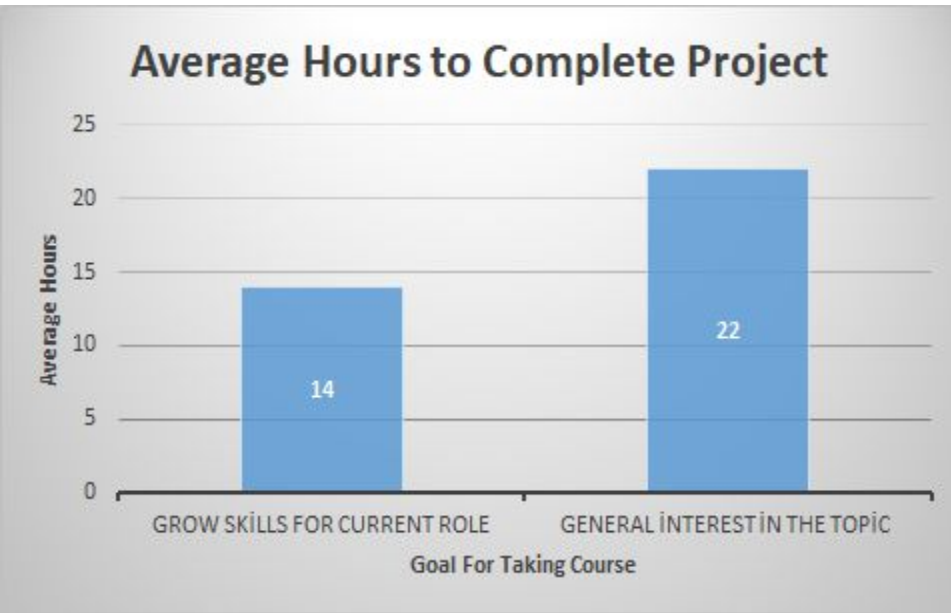
Among all the 90 sources mentioned in the survey 75 sources were mentioned only once. These have been grouped under Other in order to make the visualization clearer.

Do students complete projects faster if they get less sleep?

The scatterplot shows that there is no linear relation between the average hours spent to complete the project and the average hours of sleep. Also, it was found that the correlation between these variables is $-0,00793$, which is very weak. And hence no conclusion can be made from this data whether the variables have an effect on each other.



Do students who want to grow skills for a current role complete projects faster than students who just have a general interest?

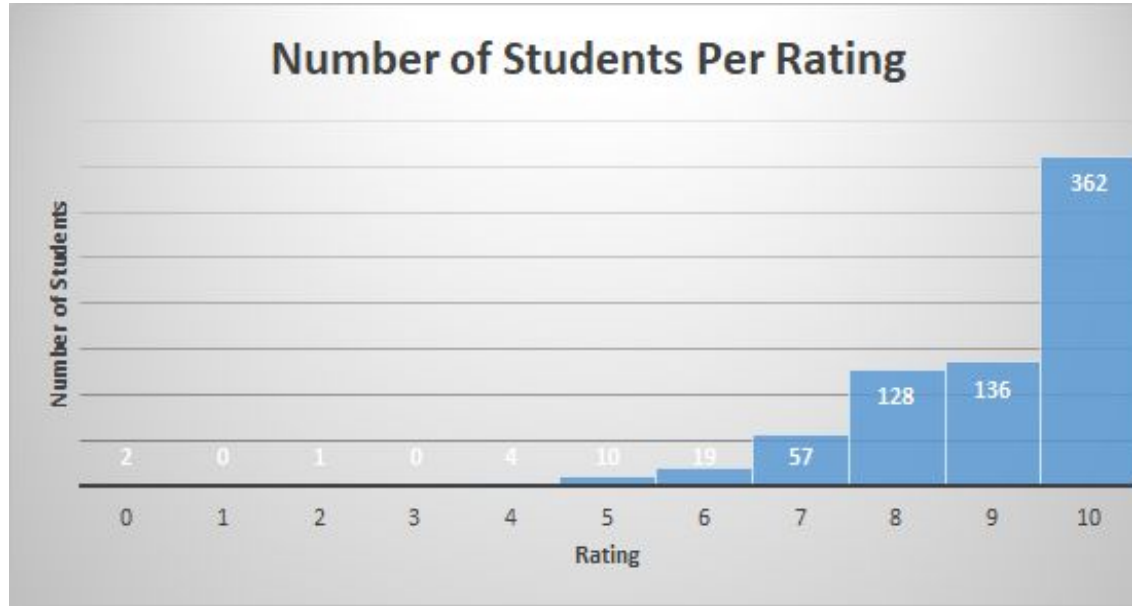


According to the data, students who have a general interest in the topic, take longer to complete projects than those who just want to grow skills for their current role.

22 students that is 61% of the students who have a general interest in the topic take an average of 5.5hrs more to complete

Do students love Udacity?

Mean	8,969401947
Mode	10
Median	10
Standard Deviation	1,375940723
Minimum	0
Maximum	10
Range	10



As can be clearly seen from the visualization the data is skewed to the left. Also, from the summary statistics we see that the mean(8.9) is lower than the median(10). A median of 10 shows that 50% of the students gave a rating of 10 and the average rating given by students is 8.9 as shown by the mean. Additionally, a low standard deviation of 1.38 is observed, meaning the data points tend to be close to the mean. The high range of 10 indicate that the rating is more spread from the mean, but this could be due to outliers. Therefore **students who took the survey** are more likely to recommend Udacity to their family and friends and hence love udacity. To support this fact, the mode is 10. Meaning the most common rating is 10 and therefore majority of the students gave a high rating of 10.