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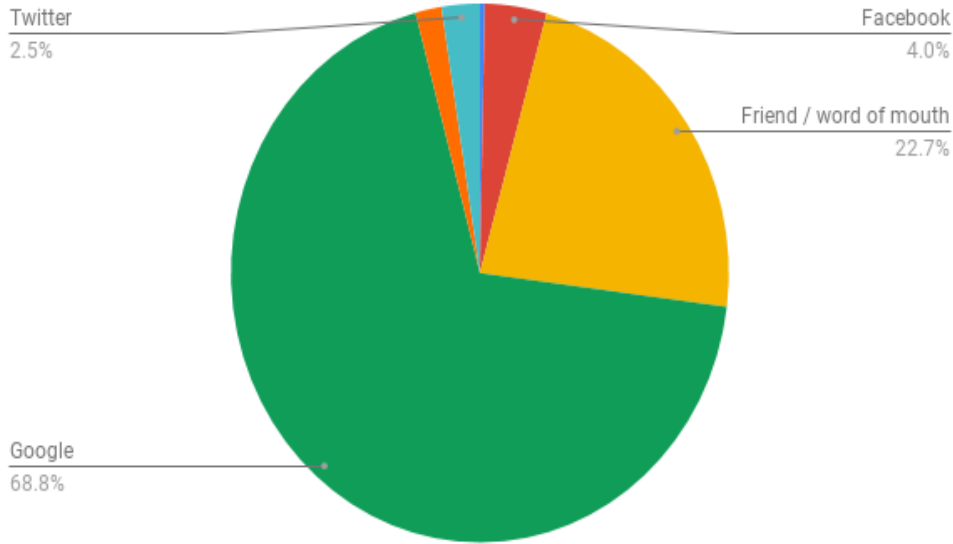
Udacity Data Foundation Nanodegree Program

Project “Analyze Survey Data”

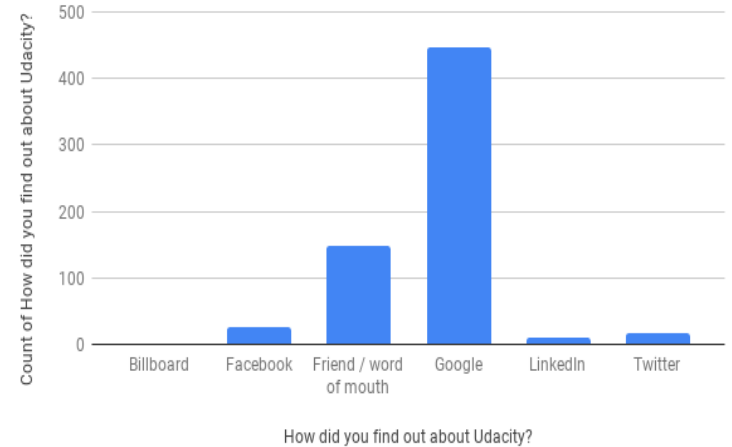
**Disclaimer:** The data used in this project is from Survey Respondents and is not from entire Udacity Student population. The results can not be extended to the whole Udacity students.

# Identifying the primary sources of information.

Count of How did you find out about Udacity?



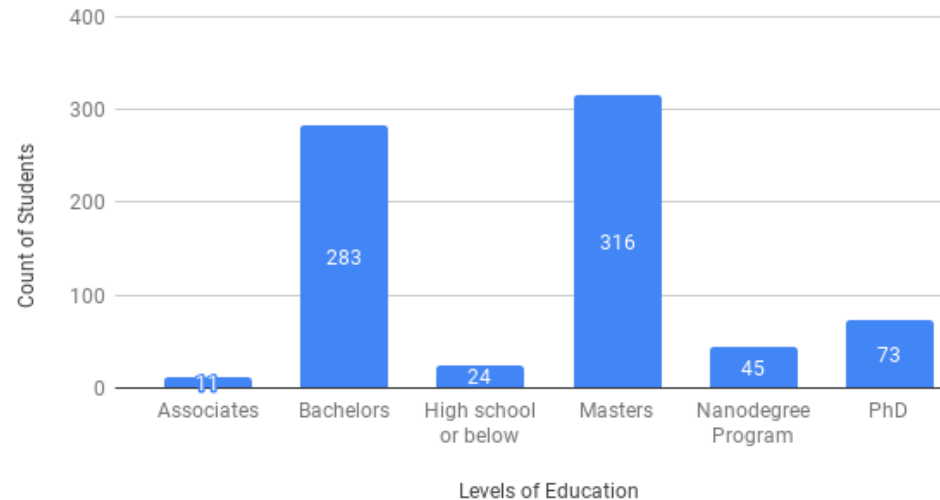
Count of How did you find out about Udacity?



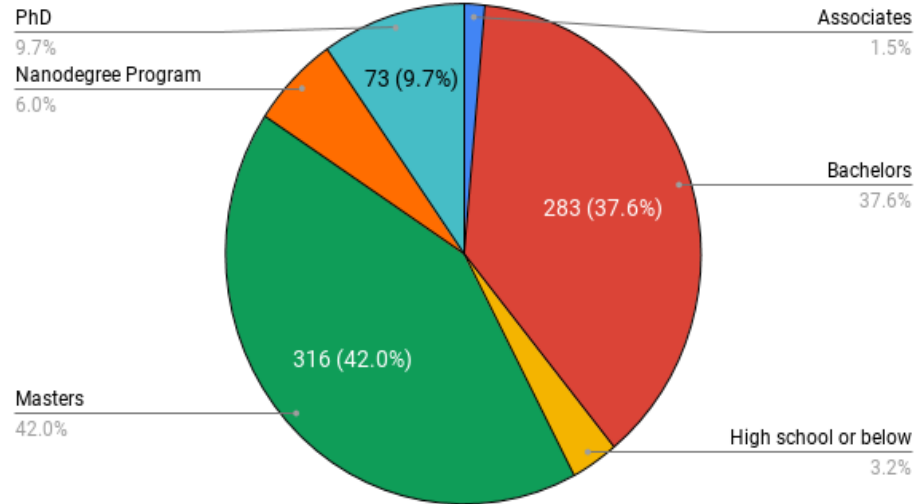
The information sources are divided into separate categories, social channels: Facebook, LinkedIn, Twitter, Google, Friend/ word of mouth. The visuals above, the pie chart and column chart, illustrate proportionality of use different social channels, and display the most frequent answer to the question “How did you find out about Udacity?” The majority of students, 68,8%, find out about Udacity from Google.

# The highest level of education for most students.

What is the highest level of education for most student ?



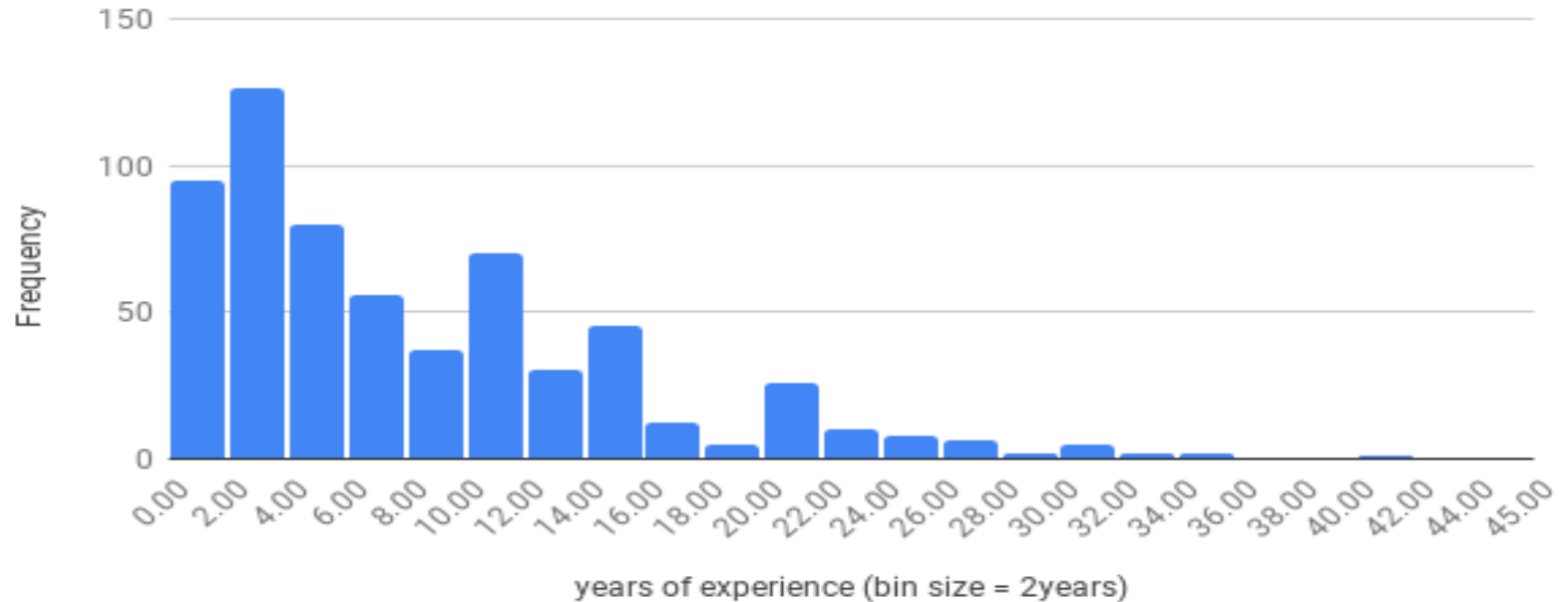
What is the highest level of education for most student ?



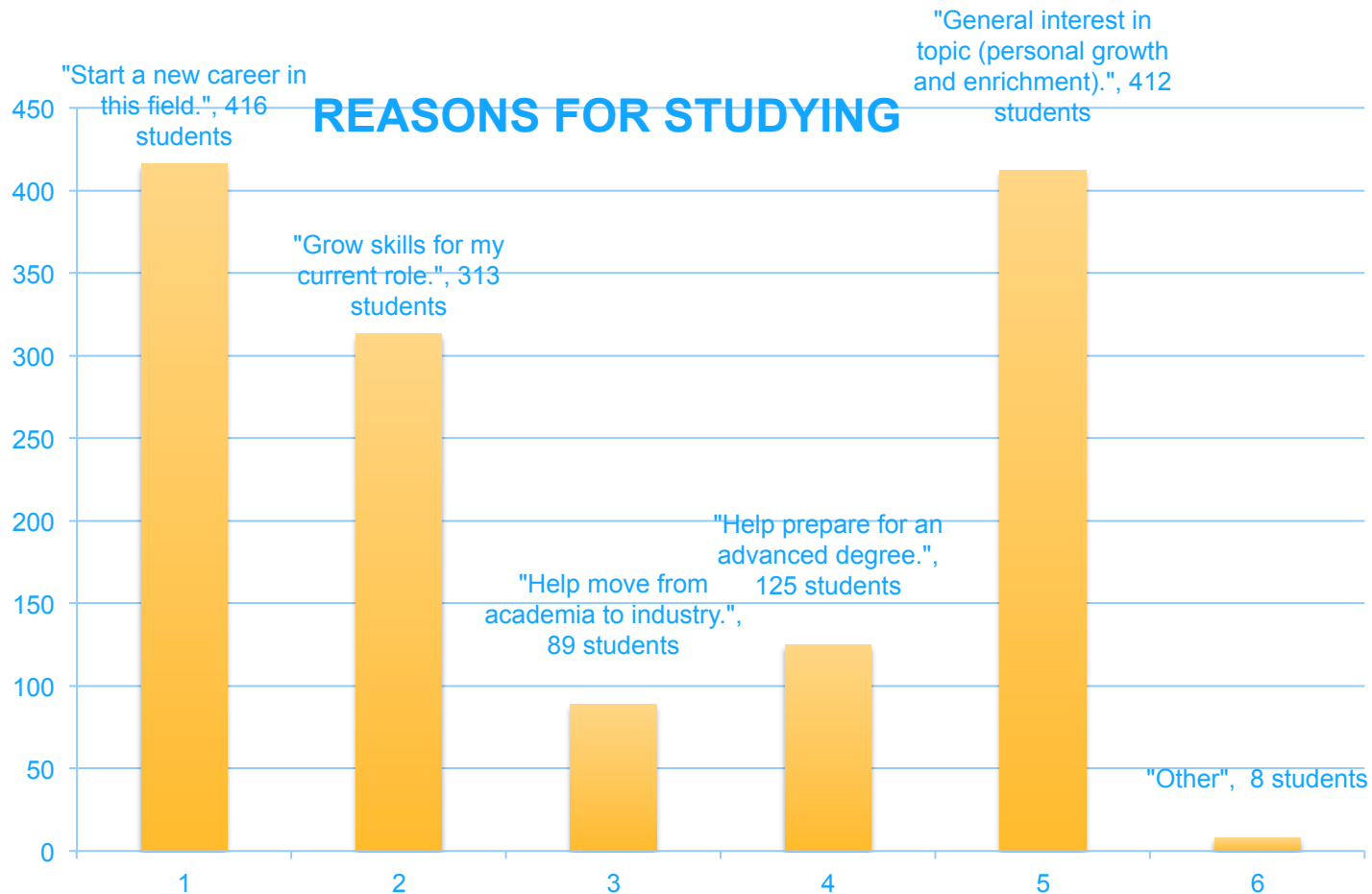
According the column chart and pie chart above, the highest level of education for most students is Masters(316 students, 42%).

# Frequency Distribution of Work Experience ( in Years)

Histogram of How many years of experience do you have in your field of work?

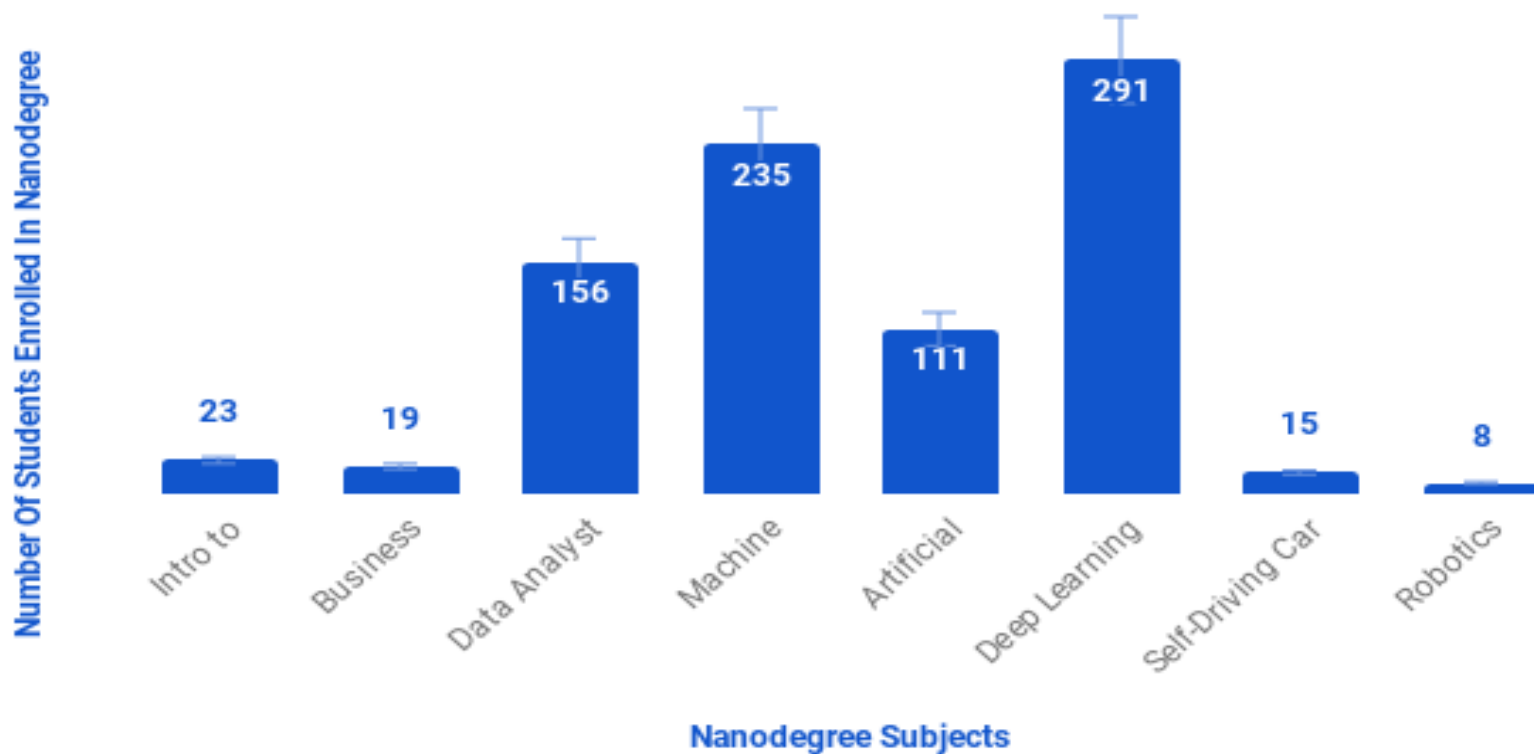


The distribution is right-skewed. Mean is higher than median. Summary Statistics: MIN = 0, MAX = 40, MEAN (average) = 8, MEDIAN (middle number) = 6, MODE (the value that appears most often) = 1, RANGE (the difference between the lowest and highest values) = 40, STANDARD DEVIATION = 7.2.



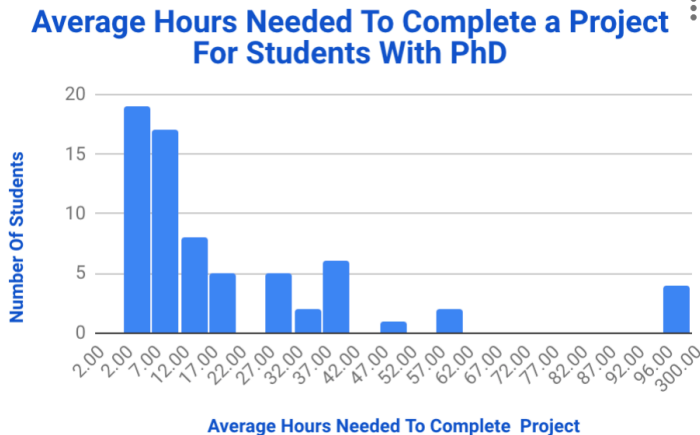
Analyzing multiple columns to find out what reasons to study are the most popular among students of various Nanodegrees. This bar chart displays categorical data meaning students reasoning in this case divided in six categories. The greater numbers have “Start a new career in this field” reason given by 416 students and “General interest in topic (personal growth and enrichment)’ reason given by 412 students.

## The Least and Most Popular Nanodegree Subjects

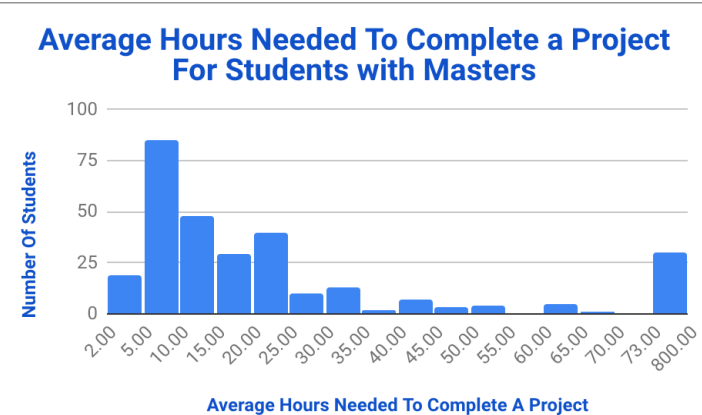


The bar chart above examines the trends in choice of nanodegree subjects. According to the chart, Deep Learning is the most popular nanodegree subject, and Robotics is the least popular nanodegree subject among Udacity students who completed the survey.

MEDIAN	12
MIN	2
MEAN	33.43185079
STANDARD DEV	77.65669192
MAX	300
RANGE	298
MODE	10



MIN	2
MEAN	33.64914773
STANDARD DEVIATION	77.57896303
MAX	800
RANGE	798
MODE	10
MEDIAN	12



Both distributions of average hours(bin size = 5 hours) have the same measure of center( both MEDIAN = 12 hours, both MIN= 2 hours and both MODE = 10 hours). Both distribution have the same large spread, STANDARD DEVIATION (approximately 78 hours ). It indicates that there are significant distance between center and values.