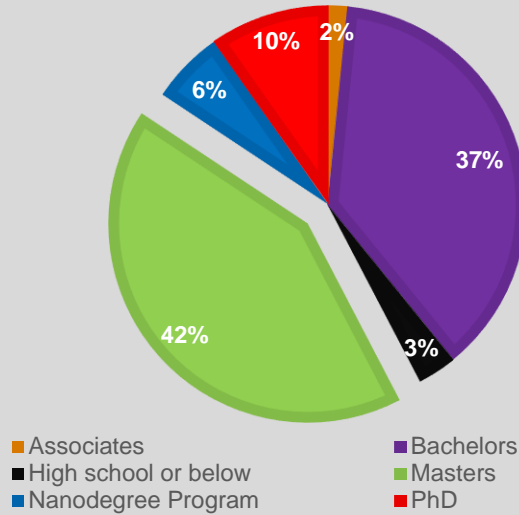


Project 02 :
Analyze
Survey data

The highest level of education

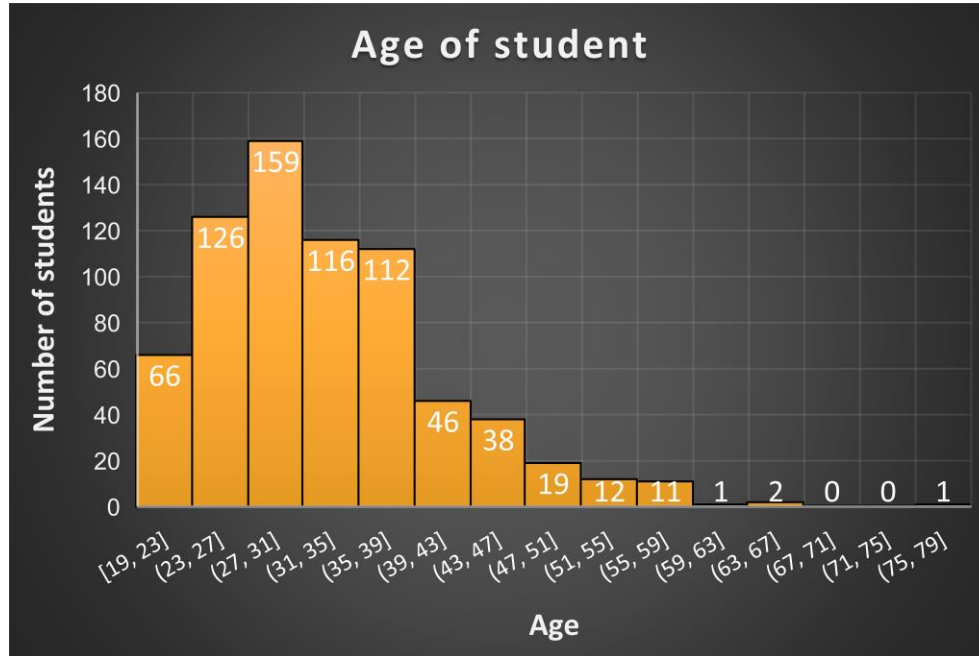
THE HIGHEST LEVEL OF EDUCATION



The pie chart shows the distribution of the highest level of education for the students that take the survey.

The entire circle encompasses all education levels of student, and sectors represent specific education level that uses percentage. As we can see 42% of student has Masters degree followed by 37% bachelors student then 10% Ph.D, 6% of student has Nanodegree Program, 3% has High school or below as level education, and finally 2% of student are associates.

Ages of Students

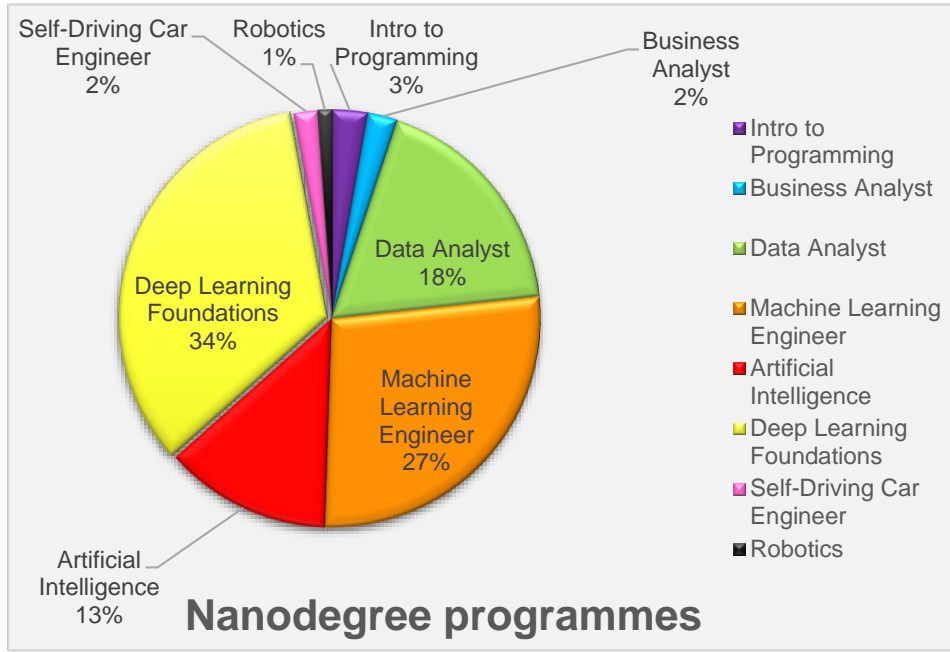


Histogram for Ages of the student enrolled in some Nanodegree programmes .

The average(mean) age of survey respondents is 33 years , the median is 32 years and the mode of our data is between 27 and 31 years .

However, the standard deviation is approximately 8, while the minimum year is 19 years and the maximum is 79 that's means 60 years as Range of distribution, so the first quartile of data set is 25 years and the third quartile is 41 years. There are some ages removed from dataset like 118 years and 1 year

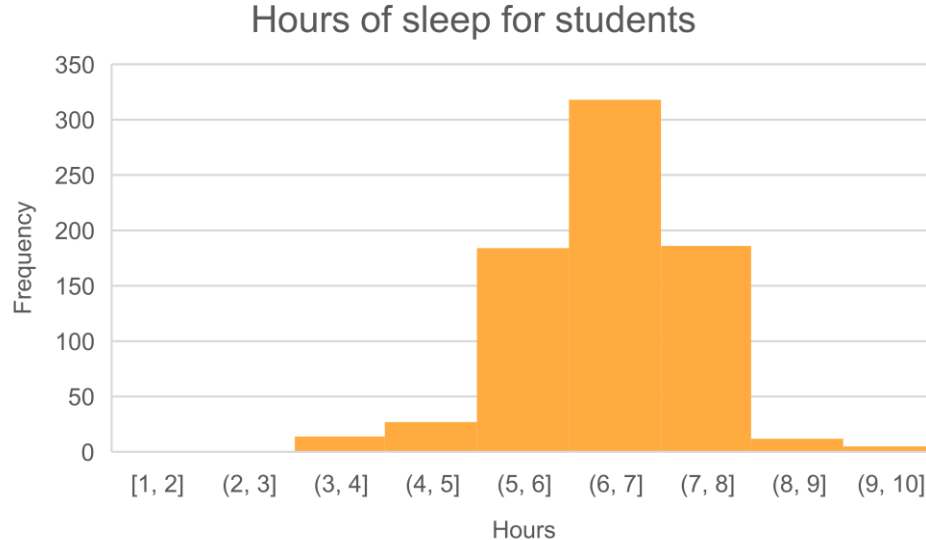
Nanodegree programmes that enrolled by students



The pie chart shows the distribution of the Nanodegrees program that enrolled by students .

The entire circle encompasses all Nanodegree programmes that enrolled by students, and sectors represent specific Nanodegree that uses percentage. So, 34% of students enrolled in Deep Learning Foundations ,27% enrolled in Machine Learning Engineer, 18% in Data Analyst, 13% in Artificial Intelligence, in 3% intro to Programming, 2% in Business Analyst with the same percent of student enrolled in self-driving Car Engineer and 1% for Robotics Nanodegree programme .

Hours of sleep for students



Here is histogram for hours of sleep do student get per night .The distribution appears to be approximately Normal skewed That means the Median and mean are approximately 7 with the value of 7 hours of sleep as mode of our data .it looks like the survey respondents has good amount of sleep per night . This does not mean it properly reflects all Udacity students as a population but, this what the sample of the population, the dataset used, reflected. While there is a correlation between different variables throughout the report, this does not imply causation. Enrolling in Udacity does not mean you will need to sleep 7 hours per night as average

However, the standard deviation is approximately 4, while the minimum value of hours is 3 and the maximum value is 10 hours that means 7 hours as Range of distribution, so the first quartile of data set is 3 hours and the third quartile is 11 hours. There are some values removed from dataset like 40 hours and 80 hours ...ext.