

What is the most frequent age-range for Udacity students?

Here is a histogram for Udacity Students Ages.

The distribution appears to be right-skewed. Therefore, the mean for this distribution is higher than its median.

The mean age for Udacity students is about 33 years. While the median age is 31 years. This supports what we have mentioned earlier regarding the mean and median values and their relation with the shape of the presented distribution(right-skewed).

On the other hand, the mode age is 29 years with almost 6% of the respondents at this age.

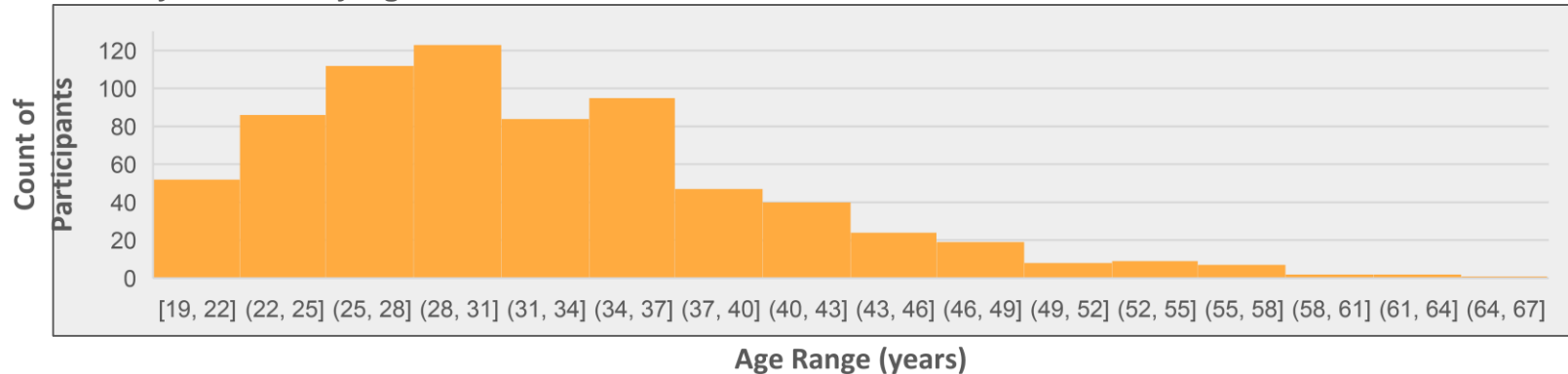
The histogram shows that the most common age-range for Udacity students is 28-31 years with about 17% of all respondents' ages falling within this range 123 out of 711 students)

However, the standard deviation for the ages of Udacity students is approximately 8 years. This standard deviation gives us a glance on the spread of the ages values. In other words, higher standard deviation means higher variability in the students ages values.

The ages of Udacity students, according to responds, range from 19-65 years. With only one student at each age of them.

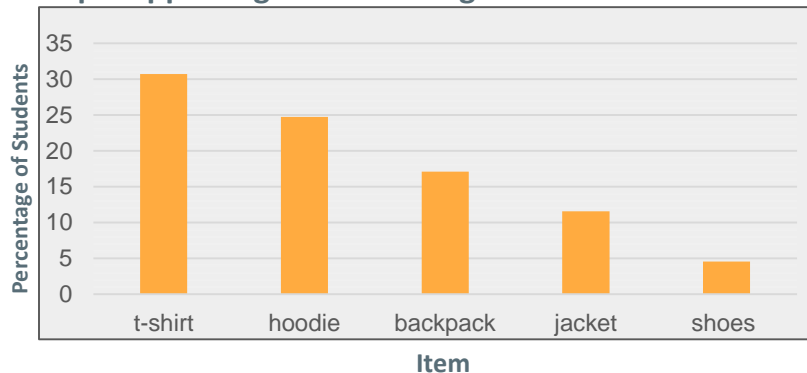
Finally, it is important to keep in mind that our data is from Survey Respondents and is not from the entire Udacity Student population.

Udacity Students by Age

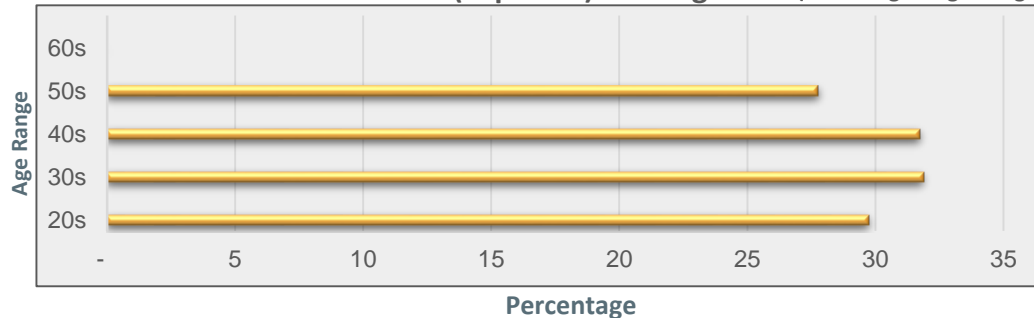


What is the top 5 most appealing items in swag store? What is the percentage of students, from each age group, that favored the top item(t-shirt)?

Top 5 appealing items in Swag Store



% of Students Favored T-shirt (Top Item) in Swag Store (according to Age Range)



Here is a clustered column chart for the top 5 appealing items in swag store based on the survey responses. And a clustered bar chart which indicates the percentages of the students, from each age group, that favored the top item.

Among the 18 items given in the survey's question, the most 5 appealing items chosen by the students were: t-shirt, hoodie, backpack, jacket, and shoes. With around 30% of total respondents favored the t-shirt and 25% selected the hoodie.

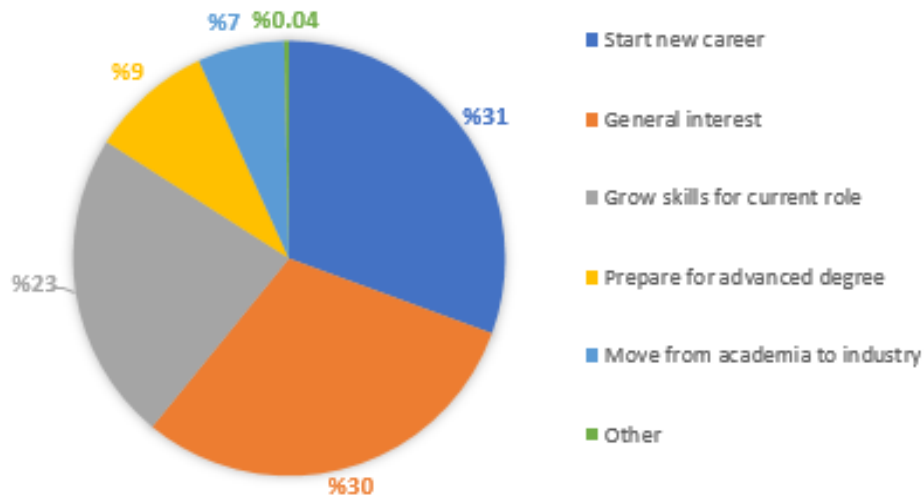
It is worth mentioning that these top 5 items comprise almost 90% of all responses.

As presented in the clustered bar chart, each age group has a 10-year period. Around 30% of 20s,30s,40s and 50s students chose the t-shirt as the most appealing item in swag store. However, none of the 60s respondents favored it.

Note: The 60s age group is only 0.4% of the sample.

What is the most common reason ,represented in the survey results ,for students to enroll in Nanodegree program?

Reasons for Enrolment in Nanodegree Program



Here is a clustered column chart of Udacity Students' reasons for their enrolment in Nanodegree Program.

The top two reasons "Starting a new career in the field" and a "General interest in the topic of the program (personal growth and enrichment)" earned approximately 30% each.

The third highest reason in the students' choice "Grow skills for their current role" was opted by Nearly 23%.

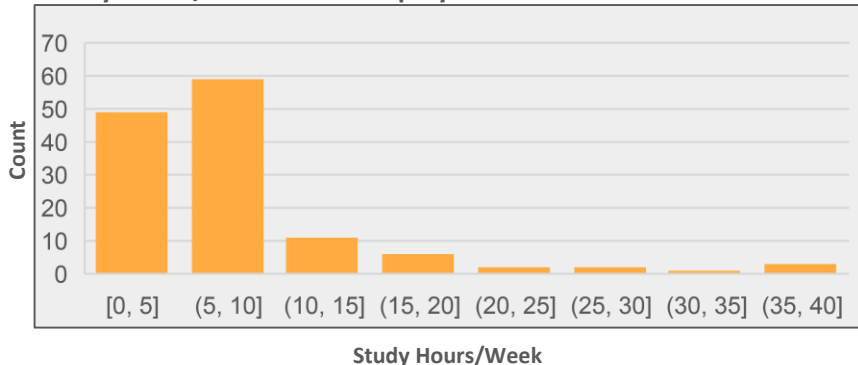
"Preparing for an advanced degree" and "Moving from academia to industry" were the reasons for enrolment of 9% and 6% of students, respectively.

It is important to state that more than 50% of the students (380 out of 753 respondents) had multiple reasons to enroll in the Nanodegree Program.

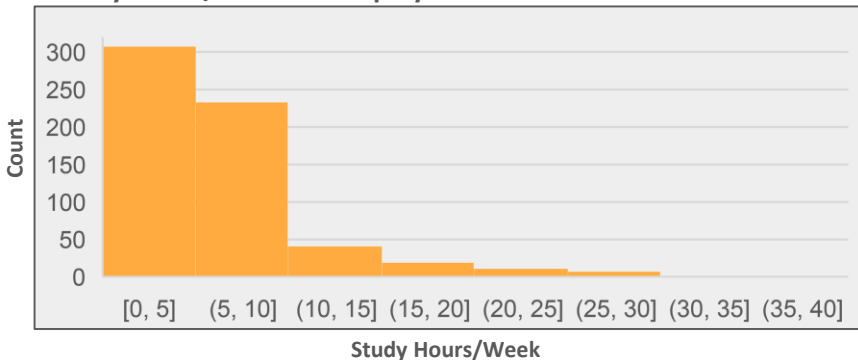
How many hours per week do students spend on studying?

Does this differ by employment status?

Study Hours/Week for Unemployed Students



Study Hours/Week for Employed Students



Here are histograms for Unemployed vs. Employed students.

Both distributions appear to be right-skewed. Therefore, the mean for each distribution is higher than its median.

The mean number of hours spent for studying per week for unemployed survey respondents was about 8 hours. While mean number of hours spent for studying per week for employed survey ones was about 7 hours.

The difference between the two means is only about an hour. It looks like being employed does not have a considerable effect on the weekly studying hours as a student.

It is worth mentioning that in the given distributions the median = the mode = 6 hour/week for both employed and unemployed groups, as 30% of all students were studying an average of 6 hour/week.

However, the standard deviation for unemployed students is approximately 8 hour/week. On the other hand, the standard deviation for those who are employed is approximately 6 hour/week. Therefore, the studying hours per week for unemployed respondents are more spread out. In other words, there is more variability in the weekly studying hours of the unemployment students than the weekly studying hours for the employed ones.

Finally, the average weekly studying hours range from 0 to 40 hour/week. Strangely, 6% of the respondents are not studying at all (0 hour/week).

Resources

N/A