Analyze Survey Data

project (2)

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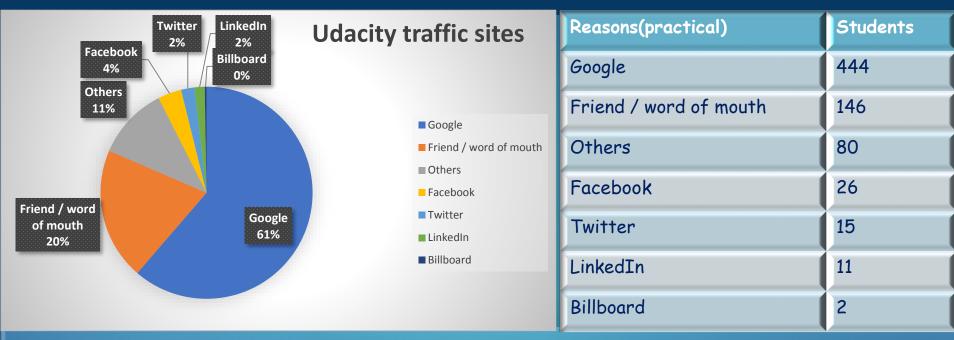
What's the most common reason for people to join Udacity?



Reason	Students
New career	31%
General interest	30%
Career growth	23%
Prepare for advanced degree	9%
Academy to industry	6%
Others	1%

According to Udacity survey results, the most common reason for student to join Udacity is starting a new career as about 31% of Udacity students sample (415 students) have joined Udacity for that reason. About 30% of Udacity students sample have joined Udacity (411 students) for General interest. "so we can say that the second most popular reason as they're pretty close to starting new career reason.", about 23% of Udacity students(312 students) have joined Udacity for career growth. About 9% of Udacity students (124 student) have joined Udacity for helping them in preparing to advanced degree about 6% of Udacity students have joined Udacity for helping them to move from the academy to industry as well as about 1% of Udacity students have joined Udacity for other reasons.

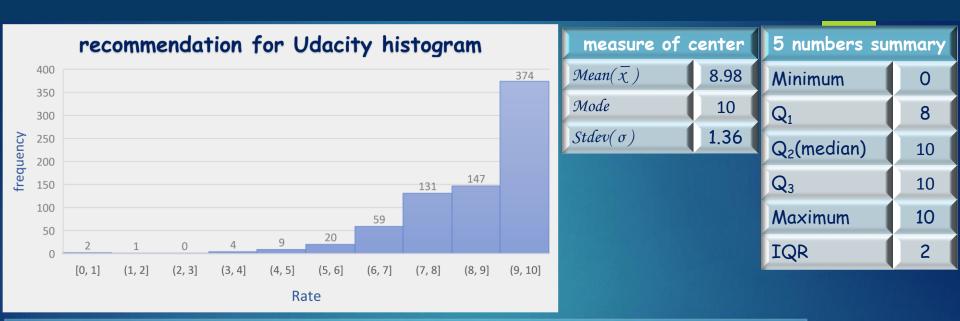
What's the most common way people find out about Udacity?



According to Udacity survey results, Udacity website get the most traffics (the way which people know Udacity) from Google since about 61% of our sample(444students) knew Udacity from Google, 20% of Udacity student(about 146) from there friends, about 4% knew Udacity from Facebook, about 2% of Udacity students knew Udacity either from Twitter or LinkedIn as well as about 11% from the Udacity students sample knew Udacity from other ways.

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What's the most Rate student gave for recommending Udacity? what that refers to?

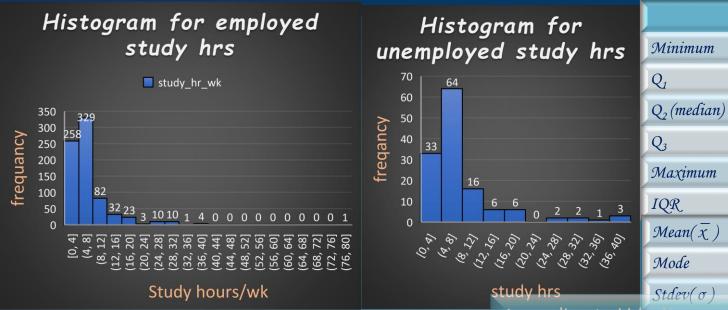


According to Udacity survey results, since the mode equals 10, so the most common rate of Udacity students is 10 and that shows the most of students get benefits from learning on Udacity and it helps them to achieve there google.

As we see from the histogram the data is left skewed. But the median = the mode, as well

as the interatrial range (IQR)equal 2.

Does the Number of vary hours based on Employment?



Comparing the employed to unemployed, there doesn't appear to be much of a difference between the number of study hours per week. If we didn't pay attention to the extremely study students (those who study a lot of hours weekly) in each group, they are very similar in distribution and summary statistics.

According to Udacity survey results, Both of each group have the same median (6 hours per week), however, according to interquartile range (IQR) we can say the unemployed study hours(IQR=3) more spread than the employed(IQR=2).

Unemployed

8.33

7.68

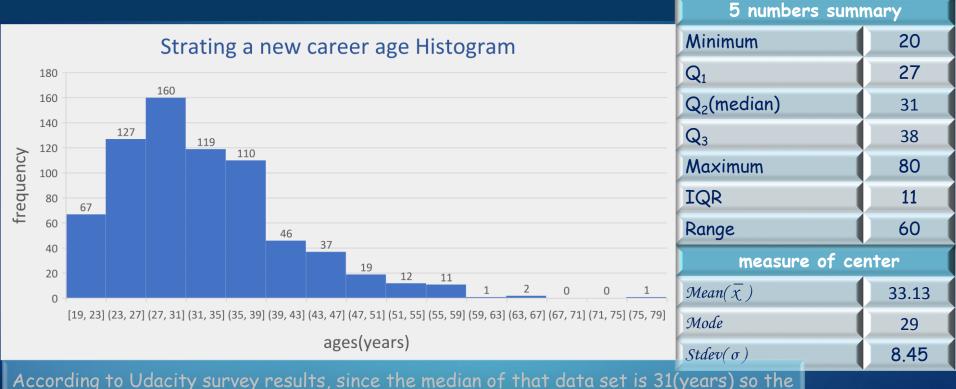
Employed

6.71

However the range of **employed**(80) greater than the age of **unemployed**(40).

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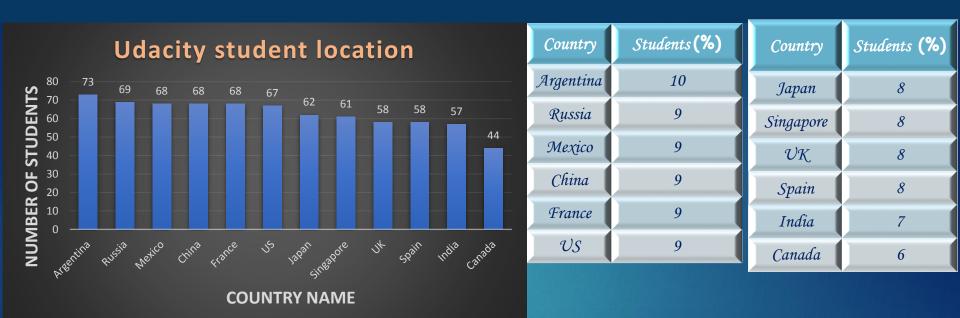
What's the common age of student who join Udacity for starting new career?



According to Udacity survey results, since the median of that data set is 31(years) so the most common age of the people joined Udacity for starting a new career is about 31 years old.

As we can measure the spread of our data by interquartile range (IQR=11).

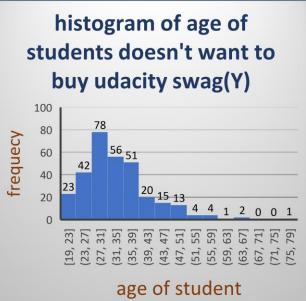
What are the most common countries/cities where students live?



According to Udacity survey results, The most place where Udacity students live in Argentina since about (10% or 73 Udacity students) form our sample lives there. Russia ,Mexico, China, France and US have about 9% of Udacity student, Japan, Singapore, UK and Spain have about 8% form Udacity students, about 7% of Udacity student (57 students) lives in India as well as 6% of Udacity students lives in Canada.

Does the age vary based on want to buy Udacity swag or not?





Comparing the students that wants to buy Udacity swag(X) to don't want to buy it(Y), there doesn't appear to be much of a difference between the age of students(median of(X)equals 31 and of (Y) 32). If we didn't pay attention to the old ages in each group, they are very similar in distribution and summary statistics.

Minimum 20 19 Q_2 (median) 31 38 37 Maximum IQR10 11 38 59 range $Mean(\bar{\chi}, \bar{y})$ 32.48 34.02 Mode 26 $Stdev(\sigma)$ 8.11 8.62

However the range of X (38 years) and Y (59 years), so Y data takes more wide range of ages than X group. however the group of don't want student is more spread according IQR.

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