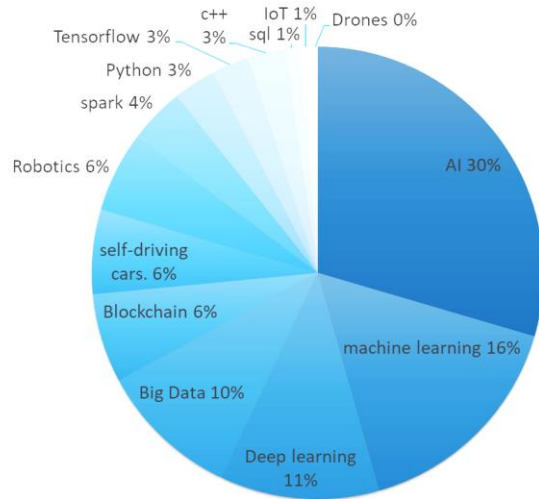
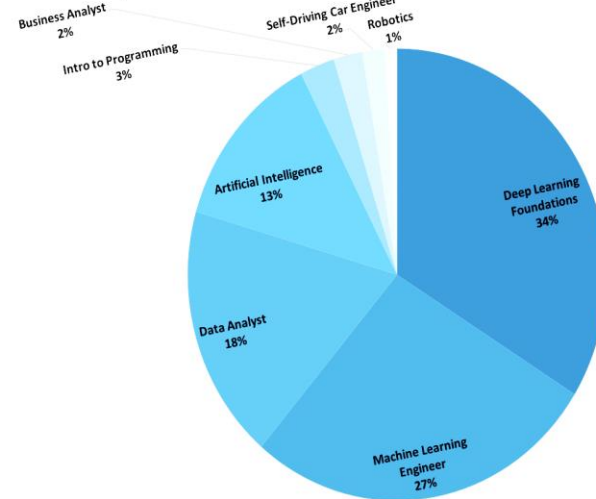


# What is the most interesting trend technology for Udacity students?

MOST INTERESTING TREND TECHNOLOGY FOR UDACITY STUDENTS

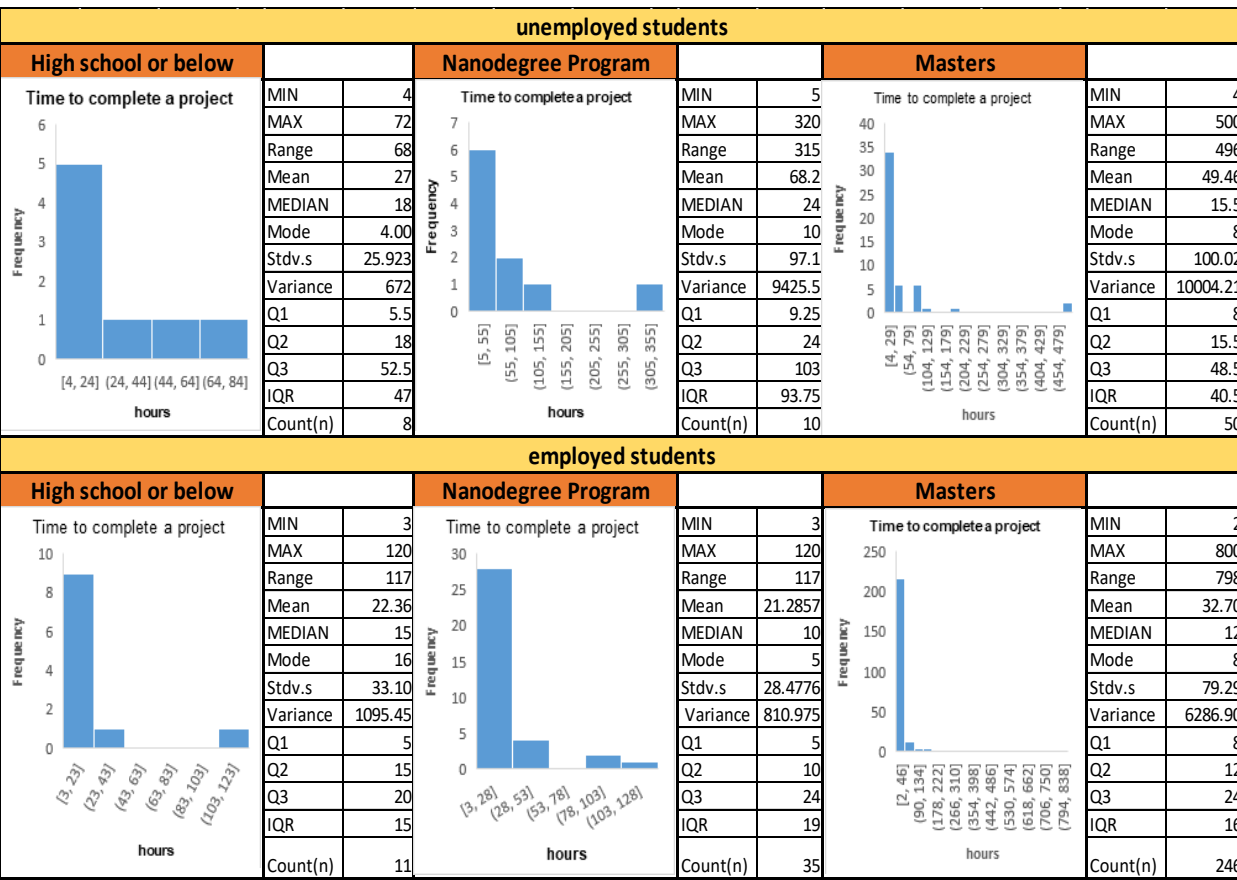


MOST NANODEGREE PROGRAM APPLIED BY STUDENT



From charts we can see student show interest in **AI** field it grow up with **17%** from what actually student applied and also **self-driving car** grow up (from 2% to 6%) , **robotics**(from 1% to 6%)  
In addition, we see field like **block chain** and **big data** has popup as new target for students  
And in the other way field like **deep learning** loss more than **60%** from student interest, also **machine learning** has a big drop down  
And we must consider that result reflect the sample of student they apply to survey not all Udacity student population Udacity

# Does the status of students employed or unemployed and their education level play role in time to complete project?



Comparing the **mean** time to complete project according to education level

(High school, nanodegree, master)

For each group

**Employed group**

(22.36, 21.28, 32.7) hours &

**Unemployed group**

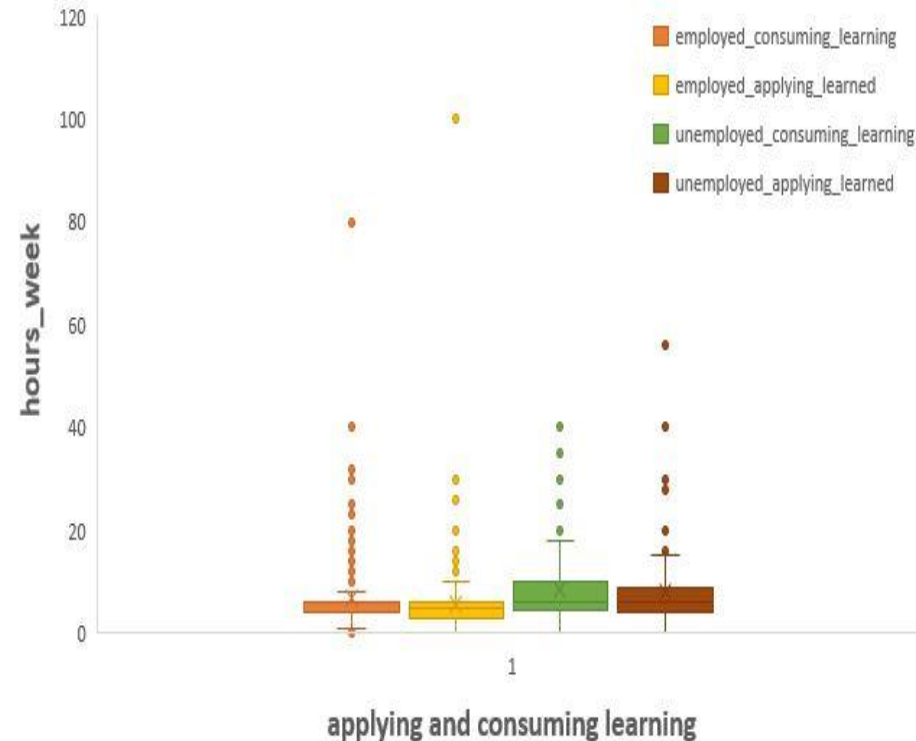
(27, 68.2, 49.46) hours

We can see that employed group take short time than unemployed group to complete project

So yes, status of students & education level play role in time to complete project as the static of the data simple show.

# Does employment status affecting learning behavior?

comparing learning behavior for employed & unemployed



summary static	employed learning		unemployed learning	
	consuming	applying	consuming	applying
Count(N)	620	620	133	133
Mean	6.8	5.6	8.3	7.97
Median	6	5	6	6
Mode	6	6	6	6
Standard Deviation	6.3	5.9	7.7	8.2
Sample Variance	39.6	34.9	59	67.3
Range	80	100	40	56
Minimum	0	0	0	0
Maximum	80	100	40	56
Q1	4	3	4.5	4
Q2	6	5	6	6
Q3	6	6	10	9
IQR	2	3	5.5	5

In our data, value for **Mean is > the median**

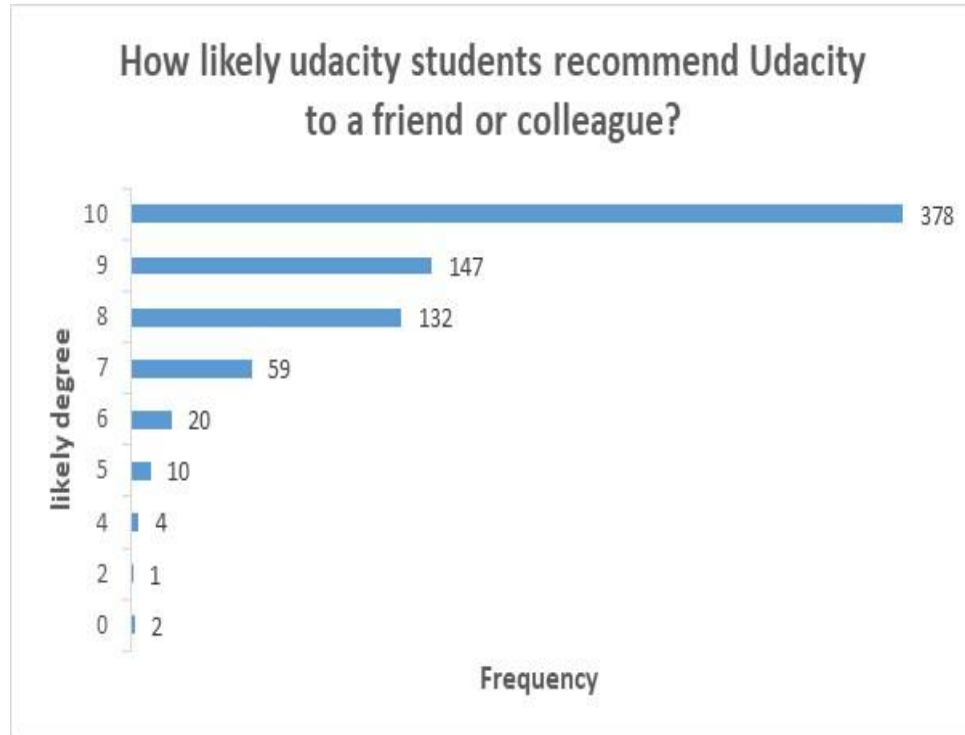
For employed & unemployed group in both applying and consuming learning so our data shape is **skewed right**

**IQR** for Employed & unemployed consuming learning is (**2, 5.5**)

Although they have same median, but different distribution That mean unemployed group has more Variability in a data set than employed

We can say that unemployed learning behavior is more variability than employed

# How likely students recommend Udacity to a friend or colleague?



likely degree	percentage
0	0.27%
2	0.13%
4	0.53%
5	1.33%
6	2.66%
7	7.84%
8	17.53%
9	19.52%
10	50.20%

If we look to result, **Mode** for the result is **10** it count **378** times from **753** the number of sample student with **50.20%** We will see that more than **97%** of students likely to recommend Udacity to their friend or colleague