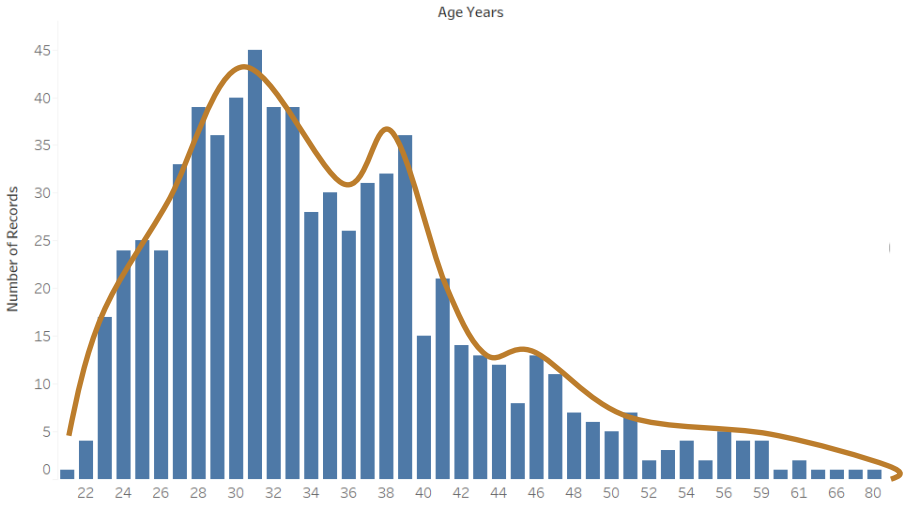
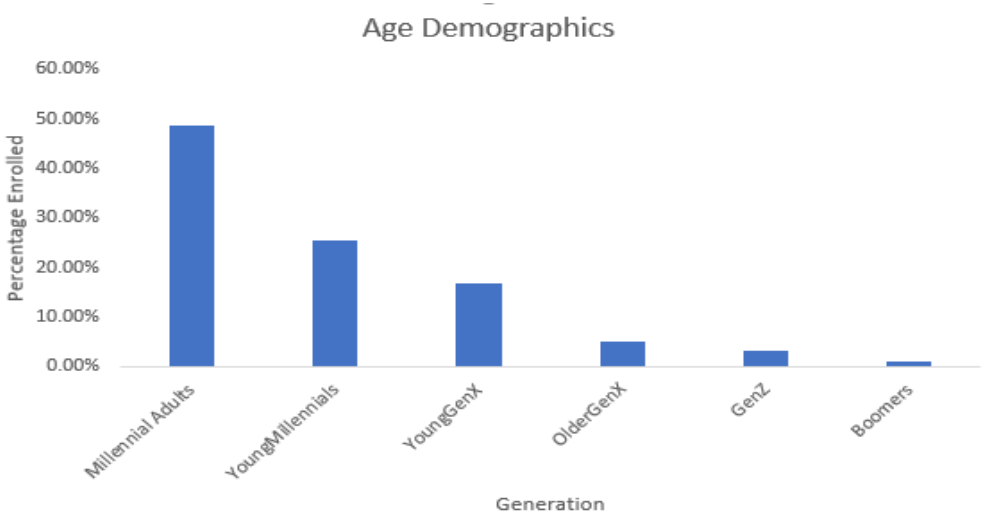
Udacity Survey Data Project

What is the Age demographic of Udacity members?





The **Mean age** of those surveyed in Udacity is **35 yrs**, The **Mode is 31 yrs** and **Median is 33 yrs**. The Histogram shows that the Age is Positively skewed(Right Skewed) with majority of respondents between **age 21-41 yrs.**

The Standard Deviation is 8.5 Yrs, this means there a relatively normal spread in people among different age group despite being skewed towards the right.

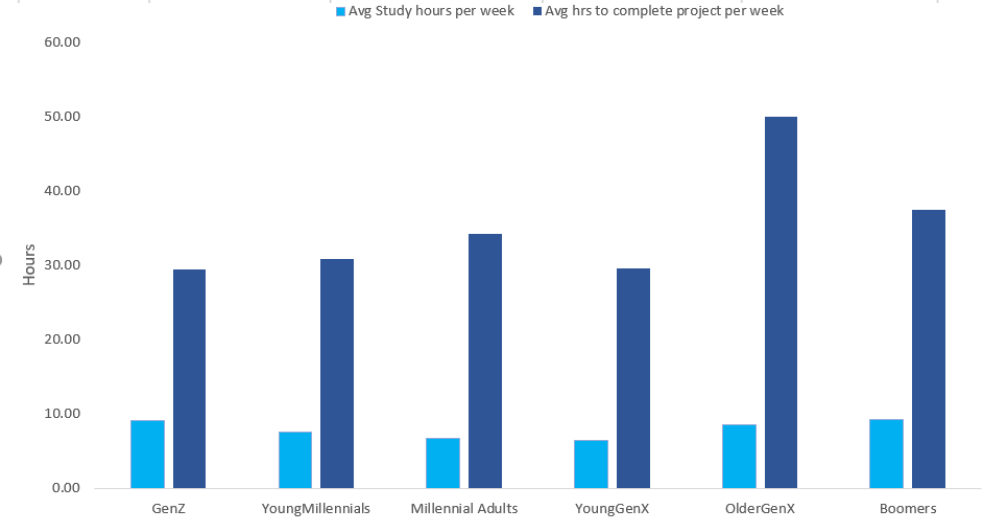
Nearly half (49%) of those enrolled are from Generation Millennial Adults , followed by Young Millennials(26%) and Young Genx(16%).

- Gen Z - Age 18-23
- Young Millennials – Age 24-29
- Millennial Adults – Age 30-39
- Young Gen X-ers – Age 40-49
- Older Gen X-ers - Age 50-59
- Boomers – Age 60-75

Note: Data is from survey respondents, not from the entire people of those enrolled in Udacity

How differetly do students learn across generation?

Generation	Avg Study hours(Weekly)	StdDev - Study hours(Weekly)	Avg hrs to complete project(Weekly)	StdDevp - complete project(Weekly)
GenZ	9	16	29	38
YoungMiller	8	7	31	51
Millennial A	7	6	34	80
YoungGenX	6	6	30	51
OlderGenX	9	6	50	168
Boomers	9	8	37	33
Overall	**7**	**7**	**33**	**75**



- The Average study hours is 7hrs per week and for Project completion time is 33 hrs per week. This clearly shows that. This shows, across Generations respondents tend to be taking much more time completing projects than studying per week.
- OlderGenX-ers and Boomers with 9 hrs take to most time to study. OlderGenX-ers also take to most time to complete projects.
- While GenZ take the most time to study and least time to complete project.
- The Standard Deviation for weekly Study Hours is similar across Generations with exception of GenZ(16). They have a much lesser spread.
- With an overall Standard Deviation of 33 for Project completion duration, and similar high StdDev across generation. The time to complete the project is much more spread when compared to Studying for the course.

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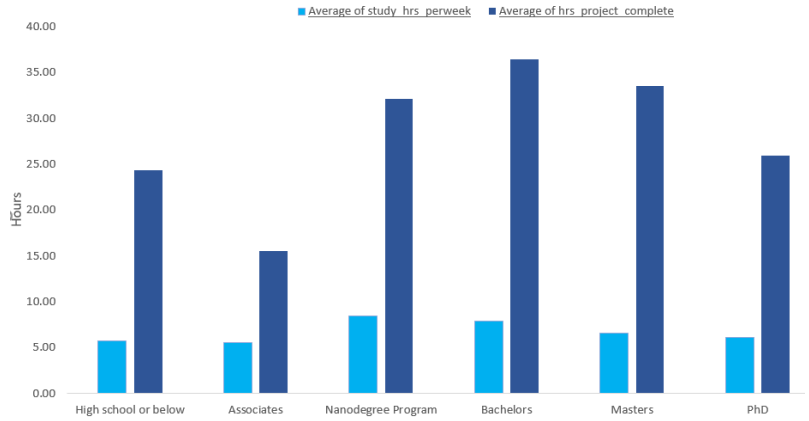
How differetly do students learn based on their education?



Education	Median Daily Commute(minutes)
Nanodegree	23
High School	30
PhD	35
Masters	40
Bachelors	40
Associates	43

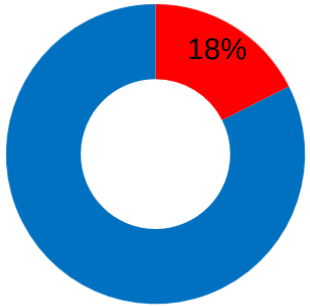
Among the respondents of the survey. Looking at the trend across Education level, Associates seem to be the fastest learner, they take an Average of 6 hrs to study and 17 hrs to complete a project. Also, Associates have the highest daily commute time, this might also be a reason why they spend less time to study and complete project.

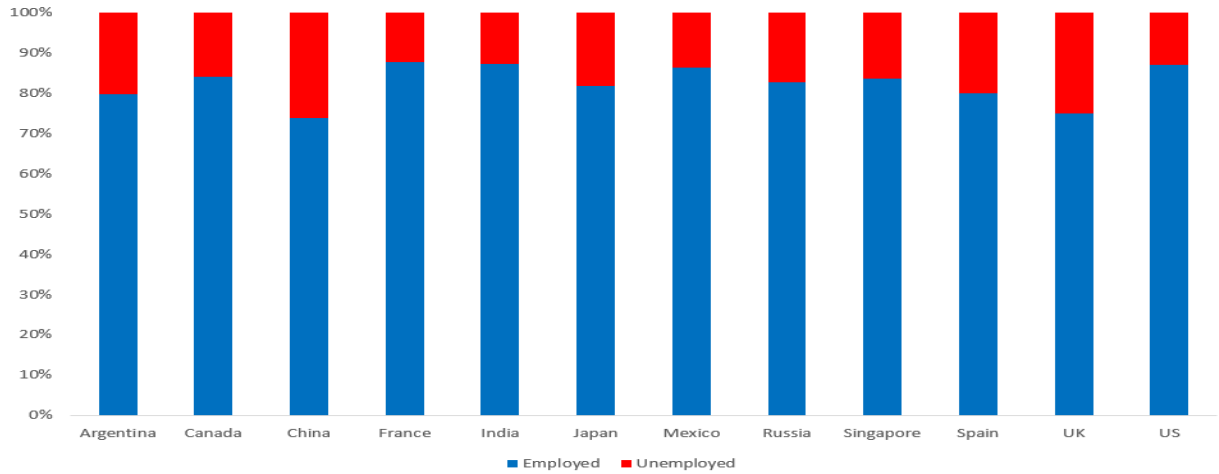
Students with Bachelors Degree take the highest mean time of 35hr to complete a project, followed by students with Nano Degree program as education level.

When it comes to study hours, students with Nano Degree as the highest education level spend the most time to study. Thus we can say, Students with nano degree are lesser efficient in in terms of completing project, but they spend most effort in Studying and improving their knowledge.

What is the employment rate across country?

Percentage **Employed** and **Unemployed**

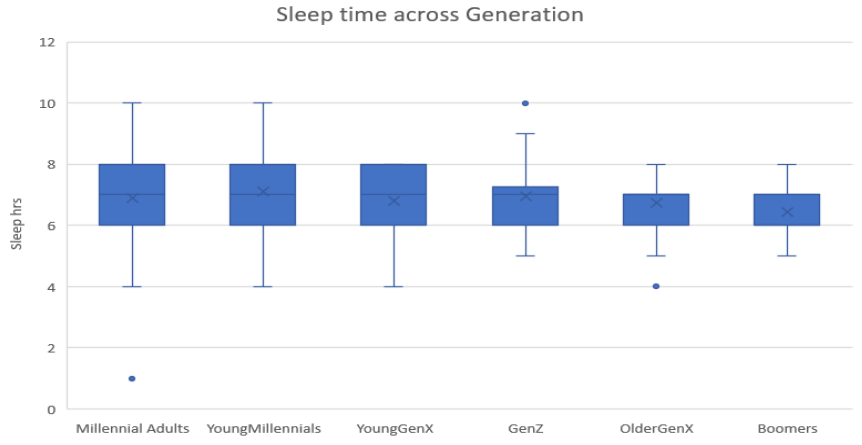


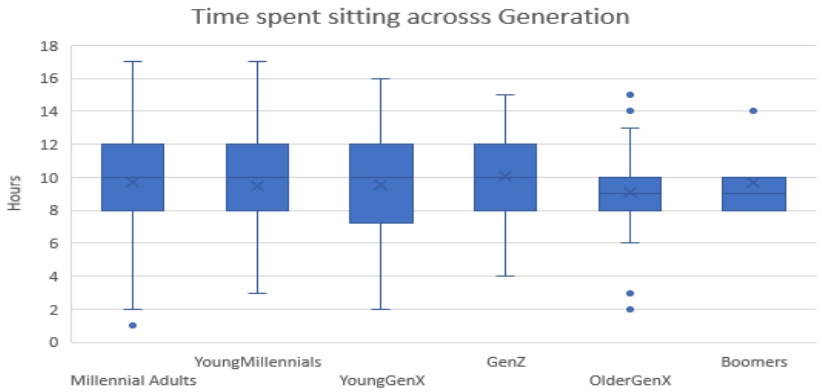


Overall, 82% from those Udacity students who were surveyed were Employed and whereas 18% are unemployed. This could mean that Udacity is more popular among those who are employed and looking to change job/ upskill, than those who are unemployed and looking for a Job.

Among countries, China and UK has the highest percentage of unemployed with 26% and 25% respectively. Countries like France(12%) followed by India(12.3%) and US(12.7%) have the least number of those who are unemployed.

How does sleeping time and sitting time vary across generation?





Overall on **average** people spend **9.6 hrs sitting** and **7 hrs sleeping per day.**

Across generations, the average sleep time have been same and average time spent sitting have been mostly similar. However, looking at the BoxPlot we can see that the Spread for Sleep hours is low and consistent across generation. Whereas for Sitting hours the spread quite high.

Young Millennials with 7.4 hrs have the highest mean sleep time, While Gen Z with 10.2 hrs have the highest mean time spent sitting.

Looking at the Boxplot for Sitting duration. YoungGenZ has the highest spread, with over 50% of the people have a sleep time 7 – 12 hrs. While OlderGenX and Boomers have the least spread with 50% people spending 8-10 hrs sitting.

Looking at BoxPlot for sleep time, OldergenX and Boomers have the least spread with over 50% between 6-7 hrs.

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