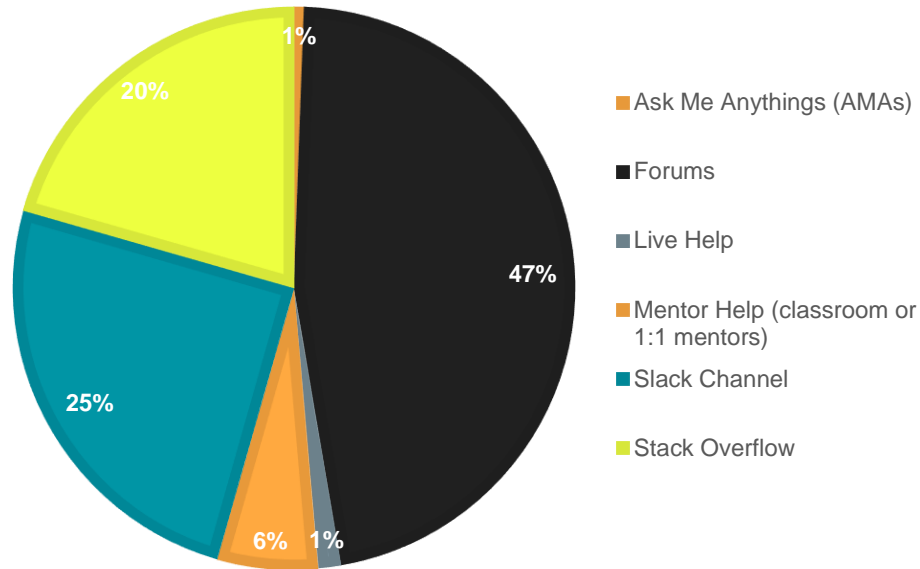


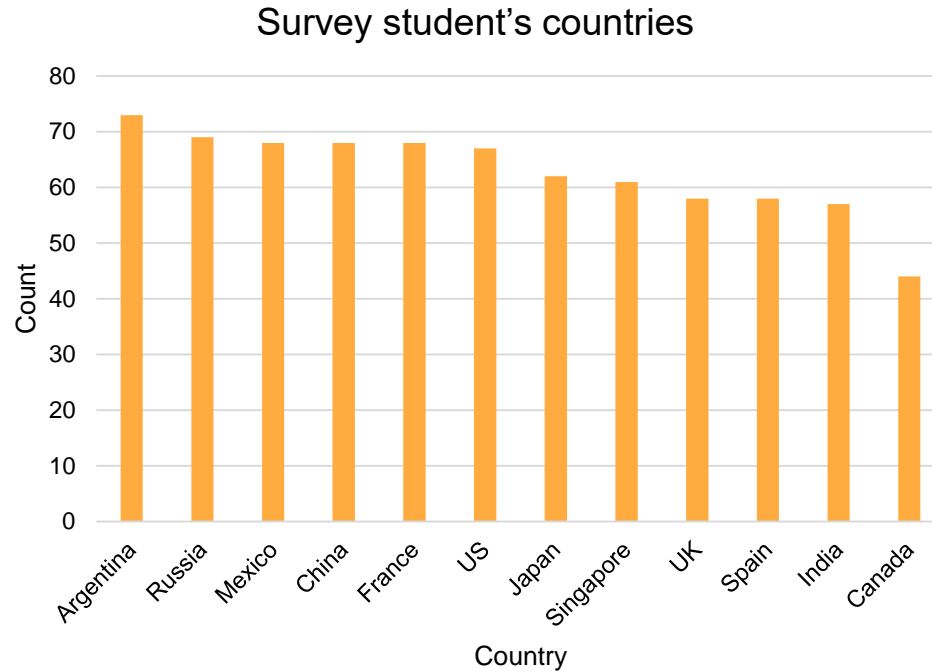
# What is the most useful resource on Udacity platform for student's doubt clarification?

**MOST USEFUL RESOURCE**



- According to survey results(does not represent whole student population), Forum is used by 47% of students making it the most useful resource provided by Udacity.
- Outside web resources like Stack overflow and slack channel are next widely used by the students.
- Mentor Help is only used by 6% showing that Udacity could take steps to encourage more students to make use of this resource.
- AMAs and Live Help options need to be promoted aggressively as they are the least used resources of the platform.

# What are the most common countries where students live?

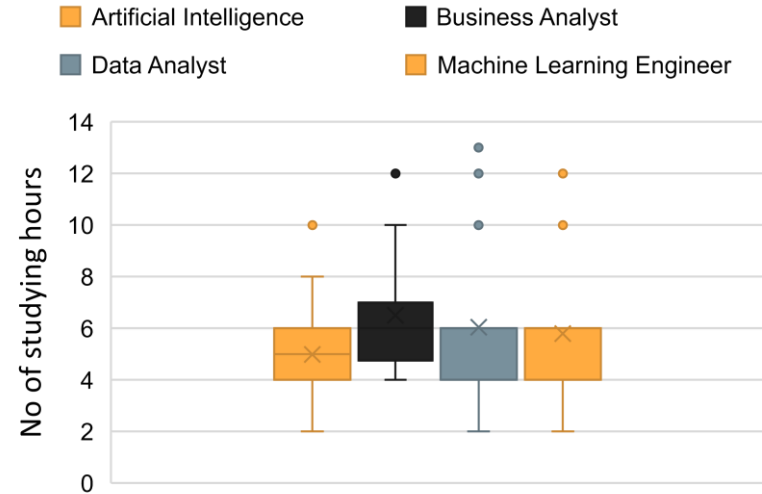


- From the bar chart, we can see that students who participated in the survey are almost evenly distributed across 12 countries with Argentina being the first country with slightly higher no. of students.
- Asian countries include China, India, Singapore and Japan while European continent has UK, Spain and France.
- Other major countries are US, Russia and Mexico.

# How many hours per week do students spend on consuming content? Does this differ by program?

| No. of hours spent consuming the material |      |      |       |        | No of Observations |
|---|------|------|-------|--------|--------------------|
| Program                                   | Mean | Min  | Max   | Median |                    |
| Artificial Intelligence                   | 4.98 | 2.00 | 10.00 | 5.00   | 63                 |
| Business Analyst                          | 6.50 | 4.00 | 12.00 | 6.00   | 10                 |
| Data Analyst                              | 6.04 | 2.00 | 13.00 | 6.00   | 91                 |
| Machine Learning Engineer                 | 5.79 | 2.00 | 12.00 | 6.00   | 134                |

Comparison of distribution of number of study hours

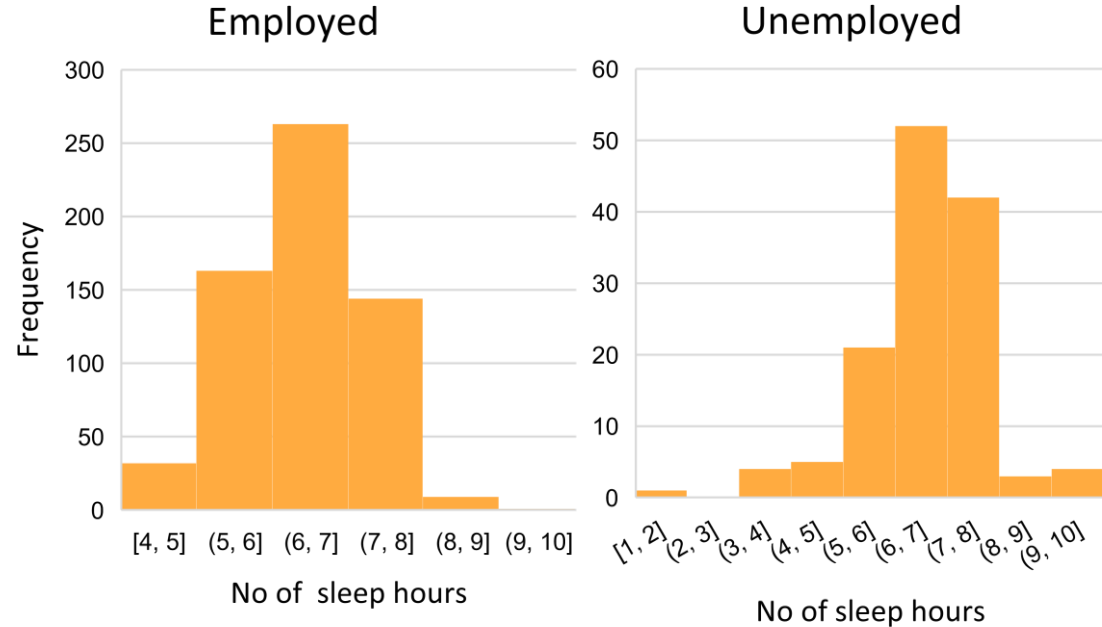


- I looked at four most popular programs(according to the survey results) and tried to analyze the amount of time students are spending on content of each program.
- After removing the outliers from the no. of hours, we can see students in all the programs are spending a minimum of 2 hours consuming material while students of Business analyst program are spending 4 hours. (Note: The Sample size is only 10, so the inference may not be applied to whole business analyst students). Mean is lowest for AI program meaning, on average AI students are spending less hours on learning material compared to the other programs while Business Analyst students are spending relatively higher hours on average. Median is also lowest for AI program meaning, overall AI students are spending less hours on material. Is the material provided by Udacity for AI program relatively easy/low standard so that students are spending less hours on it?? (Again, no of students analyzed here are only 63 which is quite a small sample, so it may not represent the whole AI student population.)

# Is there a difference in number of sleep hours based on Employment?

## No of Sleep Hours

|         | Employed | Unemployed |
|---------|----------|------------|
| Mean    | 6.88     | 7.08       |
| Median  | 7.00     | 7.00       |
| Minimum | 4.00     | 1.00       |
| Maximum | 10.00    | 10.00      |
| Std Dev | 0.92     | 1.24       |



There is no significant difference in number of hours slept between employed and unemployed people. After removing outliers, only difference that can be noticed is unemployed seemed to have more variation in their sleeping pattern (Std dev higher) and we can see from histogram of unemployed that there are few people who sleep for 1-2 hours and few sleeping 9-10 hours whereas employed people sleep at least for 4 hours and maximum 9 hours. This inference does not apply to whole student population as the analysis is done only on a % of students who have taken the survey.