UDACITY DATA FOUNDATIONS NANODEGREE

PROJECT 2 - ANALYZE SURVEY DATA

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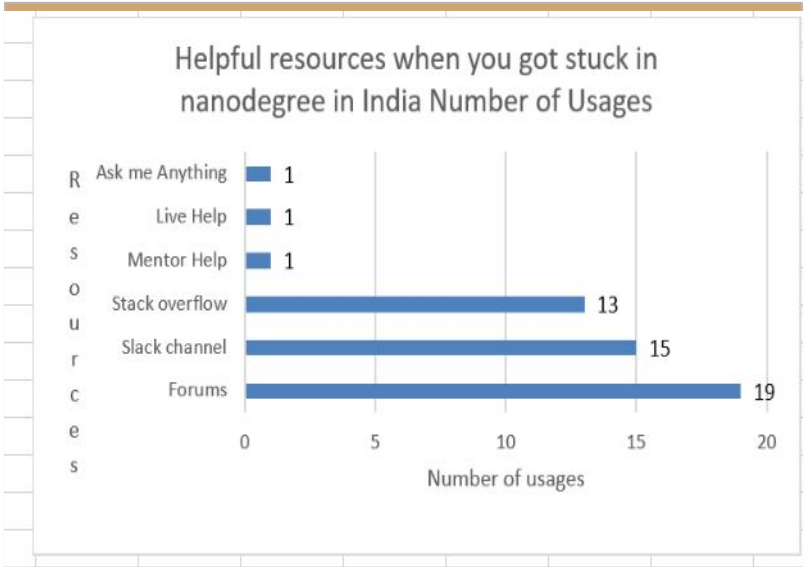
Which resource is found to be helpful in India ?



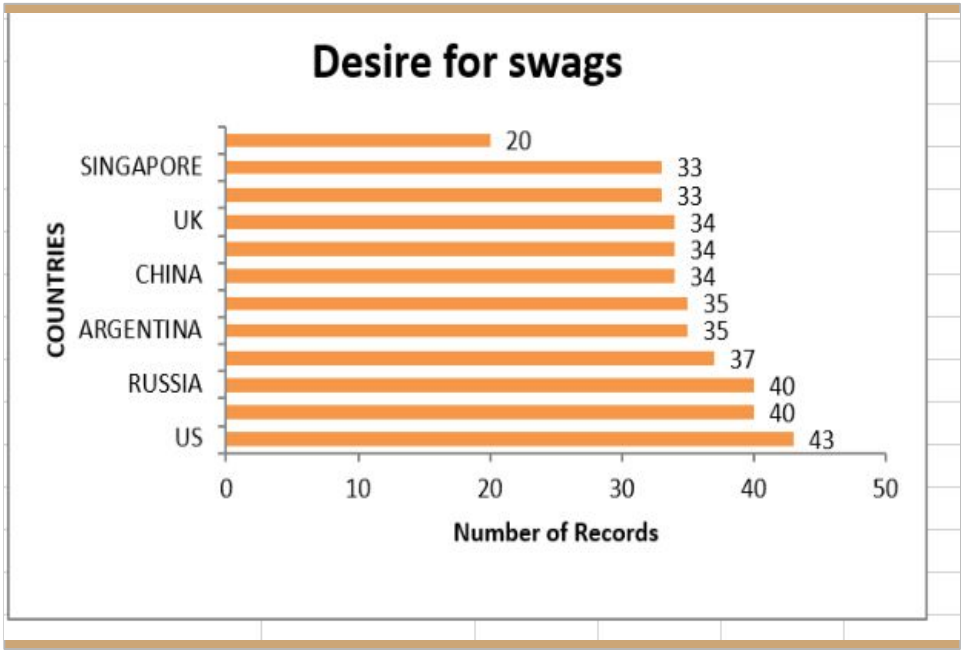
To answer the question such as **Which resource is most helpful when you got stuck in your nanodegree program in India?** I have created a **Bar chart,** with Usage count in X-axis and Resources in Y-axis.

From the Data visualization it is clear that, Mostly *Forums* are used in India with Slack and Stack overflow engaging the following positions.

I calculated an analysis for India as I was very eager to know details about my birth country .

Range is 18 and the **standard deviation** is approx 8 and so there are no large variations among them.

Which country ranks highest in desire for swags?



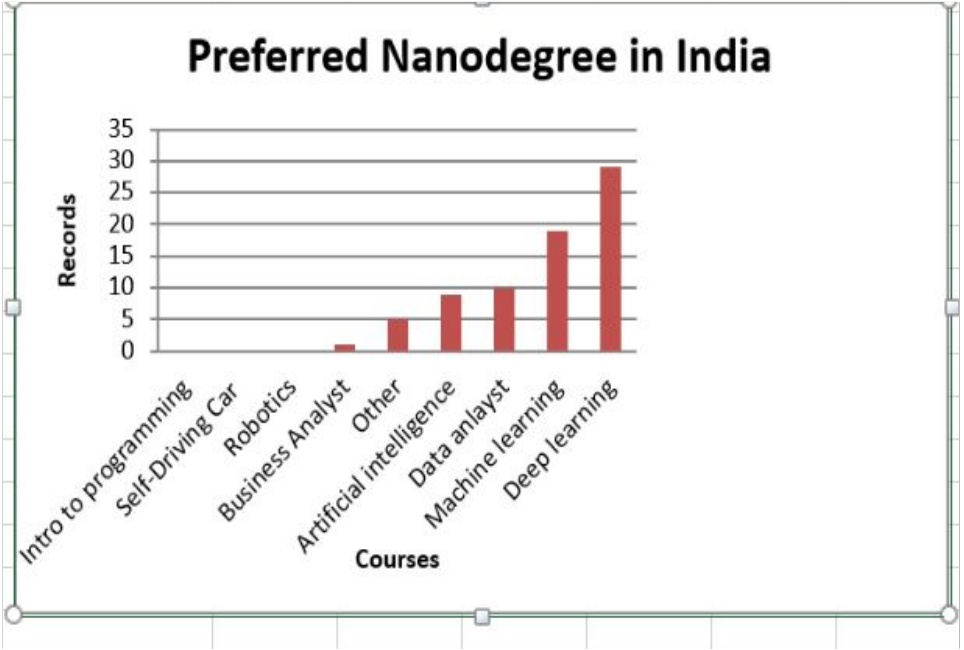
To answer the question such as **Which country ranks the highest in desire for swags?** I have created a **Bar chart,** with countries in Y-axis and Number of records in X-axis.

The Bar chart shows that US ranks the highest.Canada ranks the lowest.

Mean of Number of students who desire for swags is 35 , **Mode** value is 34, that is 35 is the prevalent count of students who desire for swags.

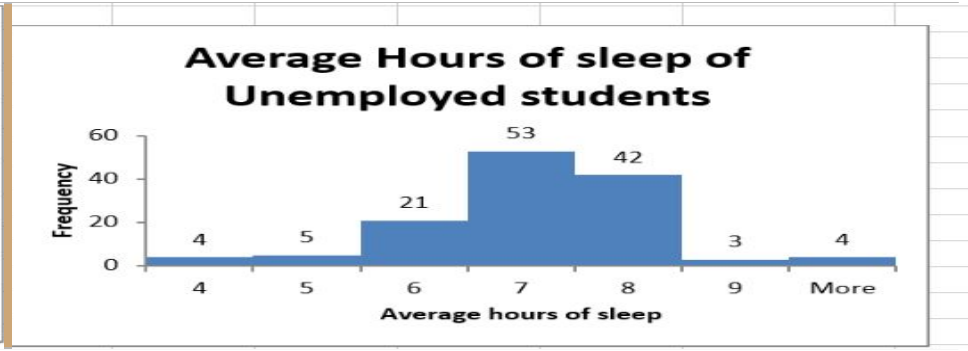
This measure is based on the amount of students who answered they want to buy swags.

Which Nanodegree is preferred in India?



To answer the question such as **Which Nanodegree is preferred in India?** I have created a **Column chart ,** with Courses in X-axis and Records in Y-axis. From the visual it is clear that Deep learning is the most preferred nanodegree in India. Machine learning is the second preferred nanodegree.
It is also clear that courses like Intro to programming , Robotics and Self driving car nanodegree are leastly preferred.

Did sleeping habit of Udacity students change with employment?



To answer the question such as **Did sleeping habit of Udacity students change with employment?** I have used two histograms to differentiate average sleeping hours between employed and Unemployed students.while the **mean** for the employed candidate is 6.8 and the **mean** for the unemployed candidates is 7.12 hr/day which means unemployed candidates have a very good sleep than employed.Meanwhile the **Mean** , **Median** and **Mode** appears to be same for both employed and unemployed which states that they have same amount of sleep every night.Here **range** is 6, same for both employed and unemployed which is spread among values like 6 to 8. The **Standard deviation** for employed is 0.9 and for unemployed is 1.2 which are not pretty large and they does not show a large variation.

Acknowledgement: This data is from survey respondents and is not from the entire Udacity student population.