1. Write about any difficult problem that you solved. (According to us difficult - is something which 90% of people would have only 10% probability in getting a similarly good solution).

In my college when I was in Motoracing team, I was given a technical problem that no one internally had yet been able to solve. It had to do with a performance issue on our car which was negatively affecting the external performance. I was able to effectively not only solve the problem, but also developed a way to track and measure the system performance in the future so that we would know before the driver when a performance issue like that came up again. What I did was I installed an Ecu unit in engine with some algos in it. So it was able to give me a daily report of engine.

1. Explain back propagation and tell us how you handle a dataset if 4 out of 30 parameters have null values more than 40 percentage

Backpropagation, or backward propagation of errors, is an algorithm that is designed to test for errors working back from output nodes to input nodes. It is an important mathematical tool for improving the accuracy of predictions in data mining and machine learning. Essentially, backpropagation is an algorithm used to calculate derivatives quickly.

The following are ways to handle missing data values:

1. If the data set is large:

We can just simply remove the rows with missing data values.

It is the quickest way, we use the rest of the data to predict the values.

2. For smaller data sets:

We can substitute missing values with the mean or average of the rest of the data using the pandas' data frame in python. There are different ways to do so, such as df.mean(), df.fillna(mean).

Sir/Mam,

I have learned tableau for visualisation and prediction for Data Science. So, I tried to learn ML in 2 days and make a prediction through it. Rest I have also attached my tableau visualisation with the data so please have a look at it also. I am very passionate about this field so I assure you if selected I will work effortlessly.

Regards,