**MOCK INTERVIEW**

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**Q1). Does machine learning play an important role in day to day life ?**

**Ans: Yes Ml plays an important role in our lifes. For example the ads which we see in apps like amazon or flipkart are based on ML. Companies track you and create a digital profile of you and shoot ads on various apps at various times.**

**Q2) List some of the Ml libraries.**

**Ans:**

1. **Pandas**
2. **Matplotlib**
3. **Scikitlearn**
4. **Numpy**
5. **Tensorflow**
6. **Keras**
7. **Seaborn**

**Q3) What is the difference between R Square and Adjusted R Square**

**Ans:** **The difference between R Squared and Adjusted R Squared is that R Squared is the type of measurement that represent the dependent variable variations in statistics, where Adjusted R Squared is a new version of the R Squared that adjust the variable predictors in regression models.**

**Q4) How to remove outliers in the given dataset**

**Ans:** Outliers are those data points which differs significantly from other observations present in given dataset. It can occur because of variability in measurement and due to misinterpretation in filling data points.

Outlier can be of two types: Univariate and Multivariate. Above, we have discussed the example of univariate outlier. These outliers can be found when we look at distribution of a single variable. Multi-variate outliers are outliers in an n-dimensional space.

a) Z-score method:

z= datapoint -mean/standard deviation

Here, we normally define outliers as points whose modulus of z-score is greater than a threshold value. This threshold value is usually greater than 2 (3 is a common value).

b) I.Q.R method:

In this method by using Inter Quartile Range (IQR), we detect outliers. IQR tells us the variation in the data set. Any value, which is beyond the range of -1.5 x IQR to 1.5 x IQR treated as outliers.

* Q1 represents the 1st quartile/25th percentile of the data.
* Q2 represents the 2nd quartile/median/50th percentile of the data.
* Q3 represents the 3rd quartile/75th percentile of the data.
* (Q1–1.5IQR) represent the smallest value in the data set and (Q3+1.5IQR) represent the largest value in the data set

**Q5) Uses of template functions in C++**

**Ans: Advantages of Using Templates in C++ are:**

* **Templates are type-safe.**
* **They are generally considered as an improvement over macros for these purposes.**
* **Templates avoid some common errors found in code that makes heavy use of function-like macros.**
* **Both templates and macros are expanded at compile time.**

**Q6) What is the use of Inline function ??**

**Ans: An inline function is one for which the compiler copies the code from the function definition directly into the code of the calling function rather than creating a separate set of instructions in memory.**