**Data Science Interview Q&A**

1. What do you mean by imbalanced Data set and how would you overcome this problem.

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6486076143089868800>

1. Explain what is Five-Number Summary. Define it's statistical importance in context to Exploratory Data Analysis.

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6486428522956062720>

1. What purpose does the activation function serve in a [**NeuralNetwork**](https://www.linkedin.com/feed/hashtag/?keywords=%23NeuralNetwork)?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6486850139536359424>

1. What can be some possible limitations of K-Means Clustering algorithm. Can you state some other unsupervised learning techniques?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6487194715165945856>

1. What are some differences between Principal Component Analysis (PCA) and feature selection in machine learning?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6487541523381616640>

1. Can you explain Recall and Precision without jumping into the jargons of TN/FN etc.

* <https://www.linkedin.com/feed/update/urn:li:activity:6487923757401903105>

1. What EDA did you do in your last project?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6488640192830889984>

1. Why ReLu is preferred over Sigmoid for activation in [**neuralnetwork**](https://www.linkedin.com/feed/hashtag/?keywords=%23neuralnetwork)?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6489002425419169792>

1. Can you explain overfitting with respect to Decision Tree algorithm?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6489366736452845568>

1. Explain the implications of choosing a larger value for K in K-Nearest Neighbor Algorithm.

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6489743460411727872>

1. Is Twitter Sentimental Analysis(TSA) is too overdone?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6490086086130401280>

1. Should we prefer Deep Learning models over Classical Statistical models?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6490468566427623424>

1. Given that I'm from a non-technical background what are the things I should learn and in what order to start my [**Datascience**](https://www.linkedin.com/feed/hashtag/?keywords=%23Datascience) career.

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6490800277111828480>

1. When is it not a good idea to Normalize your Data?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6491208813939654656>

1. Can Machines Learn?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6491557113876307968>

1. How will you find the best hyperparameters for you model?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6491928544686497792>

1. What is SMOTE?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6492619436544094208>

1. What are some limitations of PCA?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6492961082037104640>

1. What is p-value?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6493385734848909312>

1. What does 'self' signify in Python?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6493798146114707456>

1. What is adjusted R square?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6494140256487596032>

1. Give me an example where it would not be a good idea to apply k-fold Cross Validation.

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6494447345525190656>

1. What do \*args and \*\*kwargs mean?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6495270193550450688>

1. What is Minkowski Distance? What role does it plays in KNN classification.

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6495526858736660480>

1. What is a long tail distribution? How significant is this in term of classification algorithms in machine learning.

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6495966919563272192>

1. What is transfer learning? Is Transfer Learning better than making your machine learn all the way from scratch?

Ans - <https://www.linkedin.com/feed/update/urn:li:activity:6496294913846632448>