Cross entropy

Loss function

Maximum likelihood estimation

Log estimations

Mean squared error

**Activation functions**

sigmoid

Tan(h)

ReLu

regularization techniques (e.g., dropout, L2 regularization)

technologies

**python connection to SQL**

Hands-on on dataset

DE interview prep

1. Python
2. SQL
3. Basic linux commands -> after learning these 3, execute a data model
4. Hadoop
5. Pyspark
6. Hive
7. AWS
8. 2 projecys
9. Push 4-5 projects to github

Model

**ML**

**Regression (covers entire Regression with Linear as well as non linear)**

1. Simple linear Regression

2. Multivariant regression --->lasso and Ridge implementation

3. polynomial regression

3. SVR

4.KNN Regression

5.Decision Tree Regression

6. Random Forest Regression

* Data preprocessing – missing values handling, nulls handling
* Outliers handling
* One Hot encoder
* Get dummies
* Standard Scaler
* Metrics
* Plots/Sub plots

Heatmaps

Mean squared error

R2 score