For Mid Term:

1. Difference between ML & SE

2. Difference between ML & DL

3. Supervised, Semi-Supervised & Unsupervised

4. Reinforcement

5. Online learning

6. Overlifting & Underlifting

7. K4 cross Validation

8. EDA -> Assignment

9. RMSE & MSE

10. One Hot Encoding

11. Stratified Sampling

12. Correlation Matrix -> How to interpret

13. Explain -> Categorical & Numerical

14. Missing Values

15. Feature Scaling -> Label

16. Normalization, Standardization

17. Training, Testing & Validation

18. Linear Regression -> Explain Gradient Descent

-> Algorithm -> Starting from Loss Function

19. Cost Function & Loss Function

20. Residual -> Search Cost

21. Low Learning & High Learning

22. Why do we need feature scaling

23. Explain batch, median, stochastic

24. R^2 error -> Explain the significance

Calculate R^2 error

25. From scratch linear

Regulation -> De = formula

26. Polynomial Regression -> with the help of figure (Difference with linear)

27. Logistic Regression -> Why do we need it?

-> Why is linear not applied in classification tasks?

28. Explain sigmoid function

29. Cost function of logistics

Regression -> Explain

31. Confusion Matrix -> Explain with examples

32. Precision & Recall -> Explain with examples

33. ROC curve -> Explain -> Which one is better -> Find the precision & recall with a dataset