

Linear Regression (Check List)

- ☐ Pre Processing
- ☐ EDA & Visualization / Optional
- ☐ Linear Regression Math
 - Sum of Least Squares
 - Simple Linear / Multiple Linear Regression
- ☐ Pre Diagnosis
 - Multi Collinearity
 - Normal Distribution of Target Variable
 - Outliers
 - Missing values handling
 - Factor Variables –Handling/Recoding
- ☐ Model Building
 - Variable Selection
 - Model Interpretation
 - What is R-square, Adjusted R-square
 - Variable Significance Test
 - Model Improvements
- ☐ Model Diagnosis
 - Auto Correlation
 - Heteroscedasticity
 - Outliers and Leverage detection
 - VIF / Multi collinearity
- ☐ Assessment / Validation, RMSE, predictions

Logistic Regression (Check List)

- ☐ Pre Processing
- ☐ EDA / Visualization – Optional
- ☐ Logistic Regression Math part
 - Logit link function
- ☐ Why not linear regression
- ☐ Linear -> Probability
- ☐ Model Pre Diagnosis
 - Multi Collinearity
 - Class Imbalance
 - Non zero variance variables
 - Missing values
 - Variable selection
- ☐ Model Assessment
 - Null deviance v/s residual deviance
 - AIC values and importance
 - ROC Graph
 - AUC
 - Model enhancements
 - Accuracy, MSE
 - Confusion Matrix
 - Precision
 - Recall
 - F-1
 - Concordance / Discordance