Solution approach:

- 1. Data understanding and exploring
- 2. Data cleaning
- 3. Exploratory data analysis
- 4. Prepare the data for modelling
 - Check the skewness of the data and mitigate it for fair analysis
 - Handling data imbalance as we see only 0.172% records are the fraud transactions
 - 5. Split the data into train and test set
 - Scale the data (normalization)
 - 6. Model building
 - Train the model with various algorithm such as Logistic regression
 - Tune the hyperparameters with Grid Search Cross Validation and find the optimal values of the hyperparameters
 - 7. Model evaluation
 - As we see that the data is heavily imbalanced, Accuracy may not be the correct measure for this particular case
 - We have to look for a balance between Precision and Recall over Accuracy
 - We also have to find out the good ROC score.