Instructions & Key Notes:

Evaluation Metrics:

1. EDA & Deriving Insights from Data with appropriate plots (20%)
2. Solution design and accuracy (30%)
   a. Modularized code for data pre-processing, feature engineering and training
   b. Training and validation score (ROC AUC score)
   c. Inference
   d. Error analysis & Overfitting
3. implementing OOP constructs, Code Modularity, Optimized Query writing, Maintaining Database structure, Saving intermediate and final results (15%)
4. Solution flow, Code documentation (15%)
5. Presentation (20%)

Submission Details:

1. **Notebook** containing inherent characteristics from the dataset (EDA), Feature Engineering if done.
2. A **packaged** code containing training pipeline
3. An **inference** service to consume requests and provide prediction response
4. A **presentation** (pptx preferred) containing the answers to the questions, approach, results, solution flow, architecture, interpretation and business use.