CriteriaExploratory Data Analysis- Problem definition - Univariate analysis - Bivariate analysis - Provide comments on the visualisation such as range of attributes, outliers of various attributes. - Provide comments on the distribution of the variables - Use appropriate visualizations to identify the patterns and insights - Key meaningful observations on individual variables and the relationship between variablesPoints12

CriteriaData pre-processingPrepare the data for modelling: - Dropping insignificant variables with comments - Missing value Treatment (if needed) with comments - Outlier Detection(treat, if needed) with comments - Feature Engineering (if possible) with comments - Data splitPoints4

CriteriaModel building - Decision Tree- Build the model and comment on the model performance. - Comment on model performancePoints5

CriteriaModel Performance evaluation and improvement- Tune the model hyperparameters using GridSearchCV - Evaluate the model on appropriate metric - Comment on model performance - Check the Feature Importance and comment on important featuresPoints10

CriteriaModel building - Random Forest- Build the model and comment on the model performance. - Comment on model performancePoints5

CriteriaModel Performance evaluation and improvement- Tune the model hyperparameters using GridSearchCV - Evaluate the model on appropriate metric - Comment on model performance - Check the Feature Importance and comment on important featuresPoints10

CriteriaActionable Insights & Recommendations- Conclude with the key takeaways in form of important features identified. - Provide Recommendations such that the business can take action upon them.Points6

CriteriaReport - Overall quality/ Notebook - OverallLow Code (Business Report): - Structure and flow - Crispness - Visual appeal Full Code: - Structure and flow - Well commented codePoints8