

Section	Description	Points	Grade Breakdown and Requirements			Weightage
			What 80-100% looks like	What 60-80% looks like	What <60% looks like	
<b>Define the problem and perform Exploratory Data Analysis</b>	<ul style="list-style-type: none"> <li>- Problem definition</li> <li>- Check shape, Data types, statistical summary</li> <li>- Univariate analysis</li> <li>- Multivariate analysis</li> <li>- Use appropriate visualizations to identify the patterns and insights</li> <li>- Key meaningful observations on individual variables and the relationship between variables</li> </ul>	8	<ul style="list-style-type: none"> <li>- Problem definition [0.5]</li> <li>- Check shape, Data types, statistical summary [0.5]</li> <li>- Use appropriate visualizations to identify the patterns and insights               <ul style="list-style-type: none"> <li>- Univariate Analysis [2]</li> <li>- Multivariate Analysis [4]</li> </ul> </li> <li>- Key meaningful observations on individual variables and the relationship between variables [1]</li> </ul>	<ul style="list-style-type: none"> <li>- Problem definition</li> <li>- Check shape, Data types</li> <li>- Use appropriate visualizations to identify the patterns and insights               <ul style="list-style-type: none"> <li>- Univariate Analysis done for some variables but not all</li> <li>- Multivariate Analysis done for 2-3 combination of variables</li> </ul> </li> <li>- Few observations listed</li> </ul>	<ul style="list-style-type: none"> <li>- Problem definition</li> <li>- Univariate and Analysis done for some variables</li> </ul>	13.33%
<b>Data Pre-processing</b>	<ul style="list-style-type: none"> <li>- Prepare the data for modelling:</li> <li>- Outlier Detection(treat, if needed)</li> <li>- Feature Engineering/drop redundant features (if needed)</li> <li>- Encode the data</li> <li>- Data split</li> </ul>	4	<ul style="list-style-type: none"> <li>- Prepare the data for modelling:</li> <li>- Outlier Detection(treat, if needed) [1]</li> <li>- Drop redundant variables [1]</li> <li>- Encode the data [1]</li> <li>- Data split [1]</li> </ul>	<ul style="list-style-type: none"> <li>- Missing value Treatment</li> <li>- Encode the data</li> <li>- Train and Test Data split</li> </ul>	<ul style="list-style-type: none"> <li>- Encode the data</li> <li>- Train and Test Data split</li> </ul>	6.67%
<b>Model Building - Logistic Regression</b>	<ul style="list-style-type: none"> <li>- Build a Logistic Regression model</li> <li>- Check the performance of the models across train and test set using different metrics</li> </ul>	4	<ul style="list-style-type: none"> <li>- Build a Logistic Regression model [2]</li> <li>- Check the performance of the model across train and test set using different metrics [2]</li> </ul>	<ul style="list-style-type: none"> <li>- Build a Logistic Regression model</li> <li>- Check the performance of the models</li> </ul>	<ul style="list-style-type: none"> <li>- Build a Logistic Regression model</li> </ul>	6.67%
<b>Model Performance Improvement - Logistic Regression</b>	<ul style="list-style-type: none"> <li>- Try and improve the model performance by tuning the model (minimum 2 parameters to be tuned)</li> <li>- Comment on model performance after tuning the model</li> <li>- Provide interpretations based on coefficients obtained from the tuned model</li> </ul>	5	<ul style="list-style-type: none"> <li>- Try and improve the model performance by tuning the model (minimum 2 parameters to be tuned) [3]</li> <li>- Comment on model performance after tuning the model [1]</li> <li>- Provide interpretations based on coefficients obtained from the tuned model [1]</li> </ul>	<ul style="list-style-type: none"> <li>- Try and improve the model performance by tuning the model</li> <li>- Comment on model performance after tuning the model</li> </ul>	<ul style="list-style-type: none"> <li>- Try and improve the model performance by tuning the model</li> </ul>	8.33%
<b>Model Building - Linear Discriminant Analysis</b>	<ul style="list-style-type: none"> <li>- Build a Linear Discriminant Analysis model</li> <li>- Check the performance of the models across train and test set using different metrics</li> </ul>	4	<ul style="list-style-type: none"> <li>- Build a Linear Discriminant Analysis model [2]</li> <li>- Check the performance of the model across train and test set using different metrics [2]</li> </ul>	<ul style="list-style-type: none"> <li>- Build a Linear Discriminant Analysis model</li> <li>- Check the performance of the model</li> </ul>	<ul style="list-style-type: none"> <li>- Build a Linear Discriminant Analysis model</li> </ul>	6.67%
<b>Model Performance Improvement - Linear Discriminant Analysis</b>	<ul style="list-style-type: none"> <li>- Try and improve the model performance by tuning the model</li> <li>- Comment on model performance after tuning the model</li> <li>- Provide interpretations based on coefficients obtained from the tuned model</li> </ul>	5	<ul style="list-style-type: none"> <li>- Try and improve the model performance by tuning the model [3]</li> <li>- Comment on model performance after tuning the model [1]</li> <li>- Provide interpretations based on coefficients obtained from the tuned model [1]</li> </ul>	<ul style="list-style-type: none"> <li>- Try and improve the model performance by tuning the model</li> <li>- Comment on model performance after tuning the model</li> </ul>	<ul style="list-style-type: none"> <li>- Try and improve the model performance by tuning the model</li> </ul>	8.33%
<b>Model Building - CART</b>	<ul style="list-style-type: none"> <li>- Build a CART model</li> <li>- Check the performance of the models across train and test set using different metrics</li> </ul>	4	<ul style="list-style-type: none"> <li>- Build a CART model [2]</li> <li>- Check the performance of the model across train and test set using different metrics [2]</li> </ul>	<ul style="list-style-type: none"> <li>- Build a CART model</li> <li>- Check the performance of the model</li> </ul>	<ul style="list-style-type: none"> <li>- Build a CART model</li> </ul>	6.67%
<b>Model Performance Improvement - CART</b>	<ul style="list-style-type: none"> <li>- Try and improve the model performance by pruning</li> <li>- Comment on model performance</li> <li>- Provide interpretations based on important features obtained from the model</li> </ul>	5	<ul style="list-style-type: none"> <li>- Try and improve the model performance by pruning [3]</li> <li>- Comment on model performance [1]</li> <li>- Provide interpretations based on important features obtained from the model [1]</li> </ul>	<ul style="list-style-type: none"> <li>- Try and improve the model performance by pruning</li> <li>- Comment on model performance</li> </ul>	<ul style="list-style-type: none"> <li>- Try and improve the model performance by pruning</li> </ul>	8.33%
<b>Actionable Insights &amp; Recommendations</b>	<ul style="list-style-type: none"> <li>- Compare all the models and choose the best model with proper rationale</li> <li>- Conclude with the key takeaways (actionable insights and recommendations) for the business</li> </ul>	6	<ul style="list-style-type: none"> <li>- Compare all the models and choose the best model with proper rationale [2]</li> <li>- Conclude with the key takeaways (actionable insights and recommendations) for the business               <ul style="list-style-type: none"> <li>- Actionable insights [1 x 2]</li> <li>- Recommendations [0.5 x 2]</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Comment on the importance of features based on the best model</li> <li>- Some actionable insights and recommendations mentioned</li> </ul>	<ul style="list-style-type: none"> <li>- Some actionable insights mentioned</li> </ul>	10.00%
<b>Business Report Quality</b>	<ul style="list-style-type: none"> <li>- Adhere to the business report checklist</li> </ul>	6	Objective, guidance, and data description: 1 point Exclusion of code: 2 points Structure and readability: 1 point Rationale and logic: 1 point Visual clarity and referencing: 1 point	Objective, guidance, and data description Structure and readability Rationale and logic	Objective, guidance, and data description Rationale and logic	10.00%
<b>Guided Project Deduction</b>		9	Zero marks should be awarded in this section always as this is a deduction			15.00%
		60				