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| **Sections** | **Comments** | **Marks Obtained** | Comment |
| Executive Summary/ Objective | It should describe the problem on hand. The client should be able to understand the problem, execution and the end result without much technical information. | 5/5 | Good |
| Create Model | 1. Describe the independent and dependent variables. | 4/05 | Definition of dependent and independent variables are missing. |
| 2. Set the parameters of control, describe them. Describe the partitioning algorithm on hand. | 5/05 | Minsplit should be explained in words. |
| 3. Iterate and finalize the parameters. | 3/05 | Didn’t compare parameters to each other. Use method for feature section like chi-square. One of the variables is not useful. |
| Listing Rules | 1. List the rules and interpret them. | 3/05 | Rules are just listed but not interpreted. |
| 2. How are optimal no. of rules selected? What is the metric? | 7/10 | Optimal rules are not selected from decision tree. Feature importance module is missing. |
| Accuracy & Prediction | 1. Construct the confusion matrix. Calculate accuracy and interpret it. | 4/05        5/05 | Matrix was found but wasn’t interpreted. |
| 2. Is the calculated accuracy the final one? If yes, describe it. If no describe it. | Hyperparameter selected based on accuracies comparison. |
| Bonus: Analysis for different values of rpart, random forest and caret packages | Try different values of rpart. Justify which value is chosen as the final one. | 8/10 | How did you come up with minsplit=6? |
| Explore random forest algorithm and compare it with the results of rpart. | 10/10 | Good |
| Explore caret package and write about it. | 5/05 | Caret package used and explained. |
| K-fold validation  ROC  AUC | Each of these must be addressed and interpreted. | 14/20 | ROC graphs are not interpreted in detail. K-fold validation code and theories are missing. |
| Report writing | Appropriate references and citation must be given.    All the figures must be labelled and the code must be attached in Appendix.    Check for plagiarism. | 9/10 | Use justify in text for readability. Try to use citation. Screenshot should have figure number page 24,25 |