

DAT 640 Practical R Activity Eight Guidelines and Rubric: Performance Evaluation With the Rattle Risk Chart

Using the instructions provided in Section 15.1 of the textbook, explore the **Evaluate** tab in Rattle (Types of Evaluations, Models to Evaluate, Data Set Used for Evaluation, Risk Variable, Scoring, etc.).

Your analysis should include the following **critical elements**:

1. Using the audit data set, build a random forest. Instructions on how to access the audit data set from Rattle can be found in Section 15.4 of the course textbook.
2. Use the Evaluate tab to request a risk chart. Provide an interpretation of the risk chart.
3. Provide at least three ROC curves.

The following websites may be of assistance in your submission:

- [Data Mining Desktop Survival Guide: Scoring](#)
- [R-Rattle Training Video](#)

Guidelines for Submission: Your submission should follow these formatting guidelines: double spacing, 12-point Times New Roman font, one-inch margins, and citations, if any, in APA format when appropriate.

Critical Elements	Exemplary (100%)	Proficient (90%)	Needs Improvement (70%)	Not Evident (0%)	Value
Demonstration of R Command Execution	Includes demonstration of all R command executions in the form of screenshots or command output listings	Includes demonstration of most of R command executions in the form of screenshots or command output listings	Includes limited demonstration of R command executions in the form of screenshots or command output listings	Does not include demonstration of R command executions in the form of screenshots or command output listings	15
Required Elements	Meets “Proficient” criteria and provides additional analyses or relevant supporting scholarly material	Submission includes all the required elements of the analysis	Submission includes 50% or more, but not all, of the required elements of the analysis	Submission includes less than 50% of the required elements of the analysis	15
Model Computation	Meets “Proficient” criteria and includes assessment of alternative settings/tuning procedures	Demonstrates accurate utilization of the R/Rattle packages per the model specifications	Demonstrates utilization of the R/Rattle packages with inaccuracies or does not adhere to the model specifications	Does not demonstrate utilization of the R/Rattle packages	30

Model Analysis	Meets “Proficient” criteria and draws insightful conclusions that are thoroughly defended with evidence and examples	Provides in-depth analysis that demonstrates complete understanding of concepts and draws informed conclusions that are justified with evidence	Provides an analysis that demonstrates a general understanding of concepts or draws logical conclusions, but does not defend with evidence	Does not provide in-depth analysis	30
Articulation of Response	Submission is free of errors related to citations, grammar, spelling, syntax, and organization and is presented in a professional and easy-to-read format	Submission has no major errors related to citations, grammar, spelling, syntax, or organization	Submission has major errors related to citations, grammar, spelling, syntax, or organization that negatively impact readability and articulation of main ideas	Submission has critical errors related to citations, grammar, spelling, syntax, or organization that prevent understanding of ideas	10
Earned Total					100%