



DAT 520 Milestone Two Guidelines and Rubric

In this milestone, you will create a first draft of your decision tree. This task assumes you have already established a viable research question, identified a data set, and performed the necessary data prep. To complete this milestone, you may have to experiment/iterate with different modeling styles. The main objective of this milestone is to draft your model, explain what you did, and explain why it is the best model for your research question. For more details on completing this milestone, refer to the Final Project Notes in the Assignment Guidelines and Rubrics folder.

Your submission should include the following:

- A clear description of the **structure** and purpose of the decision tree model that you choose.
- **Documentation** that refers to potential complications in the analysis process, in an outline or bulleted format. This should be clear, concise, and thorough.
- An **evaluation** of the results of the model which includes discussion of whether or not the results are reasonable and the model is accurate, whether or not there are elements that are not present or are needlessly present, and any errors that may be present.

Guidelines for Submission: Write 2 to 3 double-spaced pages explaining your model(s). Append the graphical representations of your model, and any other supporting material that you feel is necessary to explain this draft model. Include any sources at the end and cite them in APA format.

Critical Elements	Proficient (100%)	Needs Improvement (70%)	Not Evident (0%)	Value
Structure	Decision tree and description are clearly structured	Decision tree and description are somewhat clearly structured	Decision tree and description are not adequately structured	30
Process Documentation	Documentation is clear, thorough, and logical	Documentation is not fully clear, or leaves unexplained gaps	Documentation is not clear	30
Evaluation of Results	Evaluation considers reasonableness, accuracy, missing/extraneous elements, and error in the model	Evaluation does not fully consider reasonableness, accuracy, missing/extraneous elements, or error in the model	Evaluation does not consider reasonableness, accuracy, missing/extraneous elements, or error in the model	30
Articulation of Response	Submission has no major errors related to grammar, spelling, syntax, or organization	Submission has major errors related to grammar, spelling, syntax, or organization that negatively impact readability and articulation of main ideas	Submission has critical errors related to grammar, spelling, syntax, or organization that prevent understanding of ideas	10
Earned Total				100%