

DAT 640 Milestone Four Guidelines and Rubric

For this milestone, you will create a pilot plan using reproducible research design techniques. Specifically, address the following:

- **Predictive Algorithms**
 - Given the specifications put forth by the business, what types of predictive algorithms may be appropriate for use? **Recommend** a predictive algorithm that would be appropriate for the selective structure, interaction, and relationship specifications of your chosen organizational data.
- **Reproducible Research**
 - Document your predictive model design using reproducible research **techniques** so that others may reproduce the design in various contexts.
 - Propose a **pilot plan** of a predictive analytic strategy that is consistent with the organizational specifications.

Guidelines for Submission: Your paper must be submitted as a three- to five-page Microsoft Word document with double spacing, 12-point Times New Roman font, and one-inch margins. Any citations must be formatted according to APA style.

Critical Elements	Exemplary (100%)	Proficient (90%)	Needs Improvement (70%)	Not Evident (0%)	Value
Predictive Algorithms: Recommendation	Meets “Proficient” criteria and cites relevant, professional resources to support the defense	Recommends a predictive algorithm and accurately defends its utility in meeting the specifications of the organization	Recommends the predictive algorithm but does not accurately defend its utility in meeting the specifications of the organization	Does not recommend or defend the utility of the predictive algorithm in meeting organizational specifications	30
Reproducible Research: Techniques	Meets “Proficient” criteria, and documentation is qualified with brief narrations around choices for external audiences	Clearly and accurately documents the design using reproducible research techniques so that others may reproduce the design in other contexts	Documents the design using reproducible research techniques, but documentation lacks clarity or specificity necessary so that others may reproduce the design	Does not document the design using reproducible research techniques	30
Reproducible Research: Pilot Plan	Meets “Proficient” criteria and cites specific examples to show how the pilot will	Proposes a reasonable pilot plan for the predictive analytic strategy within the	Proposes a pilot plan for the predictive analytic strategy, but the plan is not entirely reasonable given the	Does not propose a pilot plan for the predictive analytic strategy	30

	test against the organization specifications	context of the organization specifications	context of the organization specifications		
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%	