

Final Project Quantitative Rubric

Name: _____

Project: _____

Standard / Level		Beginning (C or lower Range)	Developing (B Range)	Accomplished (B+ Range)	Exemplary (A Range)
Pick a novel, interesting problem at the appropriate challenge level	Forgot	<ul style="list-style-type: none"> - Used a dataset from class <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Answered an obvious question <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Combine existing questions in unique ways - Picked a common dataset <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Created original and meaningful work - Analyzed a challenging dataset <p>1 2 3 4 5</p>
Preprocess data	Forgot	<ul style="list-style-type: none"> - Data not ready for later analysis <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - 100% correctly structured data - Handled missing values <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Explored different methods <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Handled especially tricky issues - Explored different methods with benchmarking <p>1 2 3 4 5</p>
Describe data	Forgot	<ul style="list-style-type: none"> - No visualizations - No discussion of distributions - Calculated few statistics <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Inadequate visualizations - Fit inappropriate distributions - Inadequate descriptive statistics <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Visualized enough to understand data - Explored enough to understand data - Fit the most appropriate distributions <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Created novel visualizations - Compared multiple distributions - Fit distributions outside of class - Found insights in data <p>1 2 3 4 5</p>
Fit models	Forgot	<ul style="list-style-type: none"> - No model fitting <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Attempted basic modeling - Incorrect application - Misinterpreted results <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Correctly fit a single model - Correctly interpreted model results - Summarized model meaning and impact <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Compared multiple models - Fit models outside of class materials - Detailed numerical and visual analysis of models <p>1 2 3 4 5</p>
Present to a technical audience	Forgot	<ul style="list-style-type: none"> - Unintelligible <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Unclear - Hard-to-follow - Incomplete <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Engaging talk with insights and lessons - Explained code examples <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Live demo! - Ran code and changed parameter values <p>1 2 3 4 5</p>
Write quality code	Forgot	<ul style="list-style-type: none"> - Code is incomplete - Code not on GitHub <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Code does not work - Code is hard to read - Does not have README - Commit messages are not helpful <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Code works - Code is readable - GitHub is clear and understandable <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Code has comments and tests - Professional level / pep8 - GitHub repo is public (if appropriate) <p>1 2 3 4 5</p>
X factor: Did something out-of-the-box	Forgot	<ul style="list-style-type: none"> - Routine project <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Repeated analysis from class <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Showed creativity <p>1 2 3 4 5</p>	<ul style="list-style-type: none"> - Ground-breaking <p>1 2 3 4 5</p>
Questions:					