

Proposed Rubric

Area	Points	Questions to consider
Problem understanding and statement	10 points	Is the problem well-understood? Is the problem clearly stated? Are there clear success criteria?
Data Understanding and Cleanliness	10 points	Is the source reliable? Are fields well described? Are there missing values? Duplicate data? Outliers? Are those mistakes? How are these handled? Are visualizations used to understand the data and relationships?
Feature Engineering	15 points	Are features clearly defined? Is the rationale for selecting features convincing? Are the relationship between features explored? Are feature represented optimally? (int float, one-hot...) Are unwieldy dimensions reduced reasonably? Are feature weighted appropriately?
Modeling	15 points	Are evaluation metrics properly chosen? (i.e., accuracy, precision, recall, F-measure, or a mix of all of them). Why? How is data divided between training and test? Explore different modeling choices? How was final model selected? What attributes were most important?
Comparing with prior art	5 points	Did you see similar work (maybe in a different domain)? Did you or could you modify your model, based on prior work? Is there good justification, for your entirely new model?
Deployment and performance	10 points	How easy is it to deploy the model? How well does it perform? (space time complexity) How scalable is it? Is there good error handling? Graceful exception handling? How well-instrumented is the model so improvements can be data-driven in subsequent versions?
Tangible results	10 points	Did the work yield a tangible result for a business or a user? Are there learnings that can be used to make tangible impact? Did you solve the problems mentioned in your problem statement? Did you find that there is no solution or feasible solution?
Iteration	10 points	What did you learn from above and how did you improve? Did you give a challenger a fair chance? How many times was a champion unseated?
Being the shoulder of a giant for others	5 points	As data change (over time or other dimensions), are there instructions on how to maintain your work? Have you enabled others on your path to start further along than where you started? Is your work and thinking well-documented? Are the possible next steps documented?
Evaluator bonus	10 points	Evaluator can choose their own criteria to give some extra credit for areas not covered by above
TOTAL	100 points	