

CSC477 Summer 2020 – Final project evaluation

The main goal of the project is to tell a story based on the data you analyze and model. As such, an important part of the evaluation of each of the criteria is the narrative that you include to describe your rationale, process and results. The narrative should be embedded into your notebook file as markdown. Simply submitting some code segments and plots does not meet the project objective.

	Level of achievement					
Criteria	Not evident (0)	Emerging (1)	Satisfactory (2)	Exemplary (3)	Score (0, 1, 2, 3)	Weight
Problem formulation and choice of dataset	Project objective minimally specified or choice of dataset not appropriate for the problem.	Problem objective somewhat vague. Not clear how choice of dataset(s) appropriate for objective.	Problem objective clearly articulated and identifies at least one interesting question. Choice of dataset(s) appropriate for objective.	Problem objective clearly articulated and identifies a few interesting questions. Choice of dataset(s) appropriate for objective.		5
Data preprocessing and wrangling	No preprocessing performed.	Preprocessing not sufficient or adequate to meet project objective.	Preprocessing is adequate to meet project objective.	Project considered different preprocessing options.		5
Exploratory analysis and visualization	Minimal or no exploratory analysis of dataset.	Exploratory analysis and visualizations produced are limited in helping to provide insights about the dataset. Presentation and styling make it difficult to draw insights.	Exploratory analysis and visualizations produced are adequate at providing some insights about the dataset. Presentation and styling are clear.	Exploratory analysis and visualizations produced are rich and providing insights about the dataset. Presentation and styling are crisp.		5
Application of machine learning algorithms	Did not apply a machine learning algorithm, or choice of algorithm is not appropriate for the problem.	Applied at least one machine algorithm correctly but the analysis ties to project objective in a limited way.	Applied at least one machine algorithm appropriately and drew meaningful conclusions that are tied to project objective.	Applied at least two machine learning algorithms appropriately and drew meaningful conclusions that are tied to project objective.		5
Model tuning	Analysis included no attempt to address underfitting/overfitting and to tune model parameters.	Analysis included limited or minimally adequate attempt to address underfitting/overfitting and to tune model parameters.	Analysis included mostly adequate attempt to address underfitting/overfitting and to tune model parameters.	Analysis adequately addressed overfitting and parameters tuning.		3
In-class presentation	Presentation was hard to follow and provided no clarity on the findings.	Presentation provided a somewhat clear formulation of the problem and a description of the process followed and conclusions. Delivery is sometimes engaged.	Presentation provided a mostly clear formulation of the problem and a description of the process followed and conclusions. Delivery is mostly engaged.	Presentation provided a crisp formulation of the problem and a description of the process followed and conclusions. Delivery is engaged.		8

Numerical Score: **Grade:**

Comments: