CSC2621 Section 131 Final Project Grading Rubric

Category	Proficient	Moderate	Insufficient
DATA EXPLORATION **(1)**	Visualizations and summary statistics have been used to evaluate individual distributions and relationships between pairs. Appropriate visualizations chosen and properly executed. **(1)**	Visualizations and summary statistics were used but some distributions or relationships that were necessary were missing and/or there were choice or implementation errors. **(0.5)**	Significant errors in using visualization and summary statistics to explore the data, including completeness or execution. **(0)**
CLEANING & PREPROCESSING **(2)**	Appropriately chosen, justified and executed cleaning operations. **(2)**	Data have been cleaned reasonably well but there are issues with choice or justification of methods or execution. **(1)**	Significant issues in choice or execution, justification missing or not appropriate. **(0)**
STATISTICAL ANALYSIS **(3)**	Clearly states the research hypotheses, selects and justifies appropriate statistical methods for the research questions, and flawlessly executes their application. Provides a thorough and insightful interpretation of the results. **(3)**	Clearly states the research hypotheses and chooses mostly appropriate methods, though there may be a lack of full justification or minor misapplications. Offers a basic interpretation of the results but may miss deeper insights. Demonstrates some understanding of the link between the results and research questions. **(1)**	No research hypotheses are stated. Fails to select appropriate statistical methods for the data or research questions, leading to significant errors in the application of methods. Provides an interpretation of results that is either incorrect or superficial. **(0)**
SUPERVISED LEARNING MODELS **(4)**	At least Two models used correctly and properly tuned. **(4)**	A model is missing, or the tuning was not done properly. **(1)**	Significant issues in both applying models and tuning. **(0)**
CLUSTERING **(3)**	Correct use of clustering and choice of parameters. Necessary preprocessing justified and executed properly. **(3)**	Issues with the application of clustering or method of choosing parameters. **(1)**	Significant issues with the application of clustering, choice of parameters. Lack of necessary processing. **(0)**
EVALUATION **(3)**	Evaluation metrics are appropriately selected and accompanied by a comprehensive.	Improper calculation or graphing. Incomplete or incorrect explanation.	Calculations are incorrect and explanation is incorrect or unclear.

		(1)	(0)
	explanation of the differences. **(3)**		
PRESENTATION (2)	Presents final project in a clear, organized, and professional manner. Uses graphs and tables effectively to enhance comprehension. **(2)**	Generally clear presentation but may lack some organization or professionalism. Visual aids are used but not optimized. **(1)**	Poorly organized or unclear presentation of findings. **(0)**
REPORT (2)	Submitted document includes all components, labeled for clarity. Overall report clarifies results from the rest of the analysis. **(2)**	The components are not easy to locate. The overall report is complete but has issues with inaccuracy. **(1)**	Important components are missing or they are not easy to find. Overall report is incomplete. **(0)**
Total	**20**		

Note: For final projects involving more than one group member, please include a 'contribution statement' paragraph that details *the contributions of each group member.*