

Grading Rubric for Final Project Report of STAT 385

	Below Standard	Working Toward Standard	Meets Standard	Beyond Standard	Percentages
Data Analytics Thinking and Modeling	<ul style="list-style-type: none"> - Chosen methods are not appropriate to answer raised problems - Many critical conditions and limitations are NOT considered in choosing methods - No or little description of solution to real problems using proposed methods - No interpretation of results and no discussion on real problems - No consideration of improvement 	<ul style="list-style-type: none"> - Use appropriate machine learning methods that answer real problems using the given data sets - Some critical conditions and limitations are NOT considered in choosing methods - Some description of your solution to real problems using the proposed methods - Interpret results correctly and little discussion on its implication on real problems - No consideration of improvement 	<ul style="list-style-type: none"> - Use appropriate machine learning methods that answer real problems using the given data sets - Most critical conditions and limitations are considered in choosing methods - Clearly describe your solution to real problems using your proposed methods - Interpret results correctly and provide enough discussion on its implication on real problems - Some consideration of improvement 	<ul style="list-style-type: none"> - Innovative machine learning methods that answer real problems using the given data sets - All the critical conditions and limitations are considered in building models - Clearly describe your solution to real problems with the proposed methods and compare with alternative methods - Interpret results correctly and provide detailed discussion on its implication - Identify reasonable and feasible aspects for improvement 	60

Computation	<ul style="list-style-type: none"> - The R code is partially incorrect for your chosen methods - Some outputs are not correct - No comments on code and hard to read - Did not consider running time and memory cost 	<ul style="list-style-type: none"> - The R code is correctly written for your chosen methods - The output of the code is mostly correct - Some but not enough comments on each part of the code - Running time and memory cost is not considered 	<ul style="list-style-type: none"> - The R code is correctly written for your chosen methods - The output of the code is correctly presented and interpreted - Enough comments on each part of the code - Running time and memory cost is reasonable 	<ul style="list-style-type: none"> - The R code is correctly written for your chosen methods - The output is correctly presented and interpreted - Clear and detailed comments on each part of the code - Code is efficient in time and memory 	30
Writing and Presentation	<ul style="list-style-type: none"> - Data are illustrated inappropriately - Work is not complete - Very little explanation of thinking and arguments 	<ul style="list-style-type: none"> - Data are illustrated using charts, tables, and/or graphs if appropriate. - Work is mostly complete - Provide partial explanation of thinking and arguments 	<ul style="list-style-type: none"> - Data are correctly using charts, tables, and/or graphs if appropriate. - Work is complete - Explain thinking and provide some arguments or comments 	<ul style="list-style-type: none"> - Shows data clearly and correctly using charts, tables, and/or graphs if appropriate. - Work is well organized and complete - Clearly explain thinking and arguments are well organized 	10