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| **Grading Rubric for Final Project Report of STAT 385** | | | | | |
|  | **Below Standard** | **Working Toward Standard** | **Meets Standard** | **Beyond Standard** | **Percentages** |
| **Data Analytics Thinking and Modeling** | * 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 | * 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 | * 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 | * 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** | * 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 | * 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 | * 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 | * 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** | * Data are illustrated inappropriately * Work is not complete * Very little explanation of thinking and arguments | * Data are illustrated using charts, tables, and/or graphs if appropriate. * Work is mostly complete * Provide partial explanation of thinking and arguments | * Data are correctly using charts, tables, and/or graphs if appropriate. * Work is complete * Explain thinking and provide some arguments or comments | * 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 |