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| **Report Characteristic** | | **Excellent (3 points)** | **Satisfactory (2 points)** | **Needs Improvement or Meets Completion Requirement (1 point)** | **Missing or Does not Meet Completion Requirement (0 points)** |
| **Introduction Section** | **Introduction of the study** | The goal of the study is clear AND why the study is important is clearly explained | The goal of the study is not quite clear OR why the study is important is not clearly explained | The goal of the study is not clear AND why the study is important is not clearly explained | Missing |
| **Methods Section** | **Variable Selection** | How variables are chosen for inclusion in the model is stated/explained clearly AND each method used is appropriate with sufficient justification/details. | How variables are chosen for inclusion in the model is unclear/missing OR methods used are not appropriate OR insufficient justification/details given | How variables are chosen for inclusion in the model is unclear/missing AND methods used are not appropriate AND/OR insufficient justification/details given | Missing |
| **Model Validation** | How the model will be validated is clearly explained with sufficient details AND is appropriate | How the model will be validated is mentioned AND appropriate but needs more details | How the model will be validated is very unclear OR has many details missing OR is not appropriate. | Missing |
| **Model Violations and Diagnostics** | How model violations and diagnostics will be performed is clearly stated AND how each will be handled is explained clearly AND methods are appropriate | How model violations and diagnostics will be performed is not clearly stated OR how each will be handled is not explained clearly OR methods are not appropriate | How model violations and diagnostics will be performed is not clearly stated AND how each will be handled is not explained AND/OR methods are not appropriate | Missing |
| **Results Section** | **Description of Data** | Numerical/Visual summaries of each variable are presented AND important features are discussed correctly. | Numerical/Visual summaries of each variable are not presented OR important features are not discussed or are incorrect. | Numerical/Visual summaries of each variable are not presented AND important features are not discussed or are incorrect. | Missing |
| **Process of Obtaining Final Model** | Results of key intermediate steps to obtaining final model have been presented AND choices are clearly explained, AND conclusions/methods are correct | Some results of key intermediate steps to obtaining final model have been presented, AND some choices lack clarity OR some conclusions/methods are not correct | Very few results of key intermediate steps to obtaining final model have been presented, AND many choices unclear AND/OR incorrect conclusions/methods are made/used. | Missing |
| **Goodness of Final Model** | Final model has been validated correctly AND has had model assumptions verified (and appropriately corrected if applicable) AND appropriate model diagnostics have been performed | Final model has not been validated (or has been incorrectly validated) OR has not had model assumptions verified (or not appropriately corrected if applicable) OR appropriate model diagnostics have not been performed | Final model has not been validated (or has been incorrectly validated) AND has not had model assumptions verified (OR not appropriately corrected if applicable) AND appropriate model diagnostics have not been performed | Missing |
| **Discussion Section** | **Final Model Interpretation and Importance** | The final model has been correctly interpreted in context AND it is clear how it meets the goal AND relevance of the study from the introduction. | The final model has not been correctly interpreted in context OR it is not clear how it meets the goal OR relevance of the study from the introduction. | The final model has not been correctly interpreted in context AND it is not clear how it meets the goal AND relevance of the study from the introduction. | Missing |
| **Limitations of Analysis** | All lingering problems with the final model are mentioned AND their potential impact on usefulness of final model included AND justification provided for why/how they could not be corrected. | Some lingering problems with final model are mentioned OR their potential impact on usefulness of final model unclear OR justification not provided for why/how they could not be corrected. | Few of the lingering problems with final model are mentioned AND their potential impact on usefulness of final model not discussed AND justification not provided for why/how they could not be corrected. | Missing |
| **General Report Quality** | **Clarity and Length** | The report meets word count AND is written with very few grammatical or spelling mistakes AND the report is nicely structured and easy to follow AND meets all requirements for the report. | The report does not meet the word count AND/OR is written with some grammatical or spelling mistakes AND/OR the report could be structured better to improve readability AND/OR the report does not meet all requirements for the report. | The report does not meet the word count AND/OR is written with serious grammatical or spelling mistakes AND/OR serious issues with structure which makes it difficult to read AND/OR fails to meet many requirements for the report. | Missing |
| **Use of Plots and Tables** | Plots/tables in the main text are clear and relevant for the analysis AND plots/tables in the appendix are referred to in the main text and are useful to the report AND plots/tables are correctly labelled and captioned. | Plots/tables in the main text are a bit unclear OR are not very relevant for the analysis OR some plots/tables in the appendix are not referred to in the main text OR are not useful to the report OR are not labelled and captioned correctly | Plots/tables in the main text are not clear AND/OR are not very relevant for the analysis AND some plots/tables in the appendix are not referred to in the main text AND/OR are not useful to the report AND/OR are not labelled and captioned correctly. | Missing |
| **Meets Submission Requirements**  **(the if applicable portion of this section refers only to students that are changing their dataset from the original one proposed in part 1, and therefore must also turn in an additional 1-page explanation)** | | - | - | R code is provided AND it does in fact generate the results in the report AND, if applicable, the reasoning for changing dataset/topic has been submitted and the dataset does not come from an educational resource/Kaggle/UCI ML database | R code is not provided OR it does not in fact generate the results in the report OR, if applicable, the reasoning for changing dataset/topic has not been submitted or the dataset comes from an educational resource/Kaggle/UCI ML database |