

MATH 11205: Machine Learning in Python 2022-2023

Project Marking

Using this general marking outline, specific rubrics will be used to assess each of the 5 required sections (1. Introduction, 2. Exploratory Data Analysis and Feature Engineering, 3. Model Fitting and Tuning, 4. Discussion and Conclusions, 5. References) of the project.

- ≥ 90 : The code runs without errors. Models are implemented, fit, and assessed correctly. The discussion is complete, focused and error free. The final model achieves a high level of predictive accuracy and is well documented and described in the writeup. There is significant and creative additional investigation of the problem including the use of additional data sources for features. Potentially could be used as a model answer. Write-up evidences deep understanding of the data and the model(s)
- 80 – 89 : The code runs without errors. Models are implemented, fit, and assessed correctly. All or almost all decisions are justified. The final model achieves a reasonable level of predictive accuracy and is well documented and described. The write up is generally good and the code is appropriately commented. There is moderate additional investigation of the problem. Write-up evidences good understanding of the data and the model(s).
- 70 – 79 : The code runs without errors. Models are implemented, fit, and assessed correctly with only minor issues. The majority of the decisions are justified. The write-up is reasonable and written in a suitable style but could be improved. Write-up evidences adequate understanding of the data and the model(s).
- 60 – 69 : The code runs without errors. Models are implemented, fit, and assessed correctly with only moderate issues. The discussion on the findings may be lacking detail, and contain some errors. The write-up is ok but could be better, includes some moderate errors or omissions. Relevant outputs are included but maybe lacking in some aspects. Write-up evidences adequate understanding of the data and the model(s).
- 50 – 59 : The code runs with some errors. Models are implemented, fit, and assessed but with some significant issues in implementation and or understanding. Very brief discussion is included but is substantially lacking in justification of the decisions. The write-up is marginal and includes some significant errors or omissions. Write-up evidences an incomplete understanding of the data and the model(s).
- ≤ 49 : Significant issues with the code, model(s), and/or the write up in general. A small number of correct steps are presented containing errors. Write-up evidences an incomplete understanding of the data and the model(s).