**CSCE 623: Machine Learning**

**Spring 2019**

**PROJECT PROPOSAL GRADING WORKSHEET**

Due Thursday, 2 May at 2359

Submit via Blackboard

**(**This Project Proposal is worth 5 points toward your final grade**)**

|  |  |
| --- | --- |
| Course points earned | 4.8 |

**Student Name: NEWLIN**

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| Step | Step Evaluation Criteria | Avail points | Student performance | Student Score |
| 1 | Background: Student identified domain of study they are going to work in, and the specific problem they are going to address and why it is important - in sufficient detail | 10 | Achieved | 10 |
| 2 | Formal Task Description: Formal description of task using ML language – for example: classification, regression, supervised vs. unsupervised; bias, variance. | 10 |  | 10 |
| 3 | Data Explanation: identified whether using existing data, generating new data.  Source of data example: datasets; simulations to generate the data; websites such as Kaggle or UCI data repository;  Data wrangling required?  Observations & feature count & description | 10 |  | 10 |
| 4 | Assessment & Contribution:  if supervised; where getting truth information?  How will you evaluate performance?  How will your project support research? | 10 | Missing how the project ties (or doesn’t tie) to your research at AFIT. | 8 |
| Q | Quality/Effort: Proposal follows formatting guidelines and length constraint.  Student appeared to have put sufficient thought and time into developing the proposal.  Proposal is well written and flows logically. Proposal is easy to understand. | 10 | Good | 10 |
| TOTAL |  | 50 |  | 48 |

**Questions and Suggestions:**

Since your dataset is highly imbalanced, you may need to use class resampling/overweighting to give your minority class a chance of being learned. You should also report balanced accuracy on the outcome

<https://scikit-learn.org/stable/modules/generated/sklearn.metrics.balanced_accuracy_score.html>

How will you explore your residuals to understand where you classifier is not performing well?