**Here is the rubric I will be using to grade the Lab 3.  You must have these exact sections in your project, if you want me to grade it!  Lab 3 is due Sunday, 12/02/2018 by 11:59PM.**

|  |  |  |
| --- | --- | --- |
| **Category** | **Available** | **Requirements** |
| Total Points | 100 |  |
| Business Understanding 1 | 10 | Describe the purpose of the data set you selected (i.e., why was this data collected in the first place?). How will you measure the effectiveness of a good algorithm? Why does your chosen validation method make sense for this specific dataset and the stakeholders needs? |
| Data Understanding 1 | 10 | Describe the meaning and type of data (scale, values, etc.) for each attribute in the data file. Verify data quality: Are there missing values? Duplicate data? Outliers? Are those mistakes? How do you deal with these problems? |
| Data Understanding 2 | 10 | Visualize the any important attributes appropriately. Important: Provide an interpretation for any charts or graphs. |
| Modeling and Evaluation 1 | 10 | Train and adjust parameters |
| Modeling and Evaluation 2 | 10 | Evaluate and Compare |
| Modeling and Evaluation 3 | 10 | Visualize Results |
| Modeling and Evaluation 4 | 20 | Summarize the Ramifications |
| Deployment | 10 | Be critical of your performance and tell the reader how you current model might be usable by other parties. Did you achieve your goals? If not, can you reign in the utility of your modeling? How useful is your model for interested parties (i.e., the companies or organizations that might want to use it)? How would your deploy your model for interested parties? What other data should be collected? How often would the model need to be updated, etc.? |
| Exceptional Work | 10 | You have free reign to provide additional analyses or combine analyses. |