

# Rubric for: Final Project Part 2

Monday, April 8, 2019

10:15:41 PM

Criteria		Unacceptable	Partially Proficient	Proficient	Accomplished	Exemplary
Points:		0	4	6	8	10
1	Your objective should be stated in written form. What are you trying to accomplish? Predicting a number? Classifying? Your objective must reference the context of the problem, specifically.	Did not complete this part of the assignment or the objective was inappropriate and/or incomplete.	The objective was written and described but some of the points were inappropriate or were not identified.	The objective was written and described with OK accuracy and some appropriate information was identified and discussed.	The objective was written and described with good accuracy and appropriate information was identified and discussed.	The objective was written and described high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	4	6	8	10
2	Your final ANN model, in code.	Did not complete this part of the assignment or the final ANN model, in code was inappropriate and/or incomplete.	The final ANN model, in code was written and described but some of the points were inappropriate or were not identified.	The final ANN model, in code was written and described with OK accuracy and some appropriate information was identified and discussed.	The final ANN model, in code was written and described with good accuracy and appropriate information was identified and discussed.	The final ANN model, in code was written and described high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	4	6	8	10
3	Your final model and training algorithm, in words.	Did not complete this part of the assignment or the final model and training algorithm, in words was inappropriate and/or incomplete.	The final model and training algorithm, in words was completed and described but some of the points were inappropriate or were not identified.	The final model and training algorithm, in words was complete and described with OK accuracy and some appropriate information was identified and discussed.	The final model and training algorithm, in words was complete and described with good accuracy and appropriate information was identified and discussed.	The final model and training algorithm, in words was complete and described high accuracy and all appropriate information was identified and discussed clearly.

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4	Your experimental plan for arriving at the final model.	Did not complete this part of the assignment or the experimental plan for arriving at the final model was inappropriate and/or incomplete.	The experimental plan for arriving at the final model was complete and described but some of the points were inappropriate or were not identified.	The experimental plan for arriving at the final model was complete and described with OK accuracy and some appropriate information was identified and discussed.	The experimental plan for arriving at the final model was complete and described with good accuracy and appropriate information was identified and discussed.	The experimental plan for arriving at the final model was complete and described high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	4	6	8	10
5	How long it took to run all the models in your experimental plan.	Did not complete this part of the assignment or the characterization of the time performance of all the models was inappropriate and/or incomplete.	The time performance of all the models was described but some of the points were inappropriate or were not identified.	The time performance of all the models was described with OK accuracy and some appropriate information was identified and discussed.	The time performance of all the models was described with good accuracy and appropriate information was identified and discussed.	The time performance of all the models was described with high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	4	6	8	10
6	An explanation of the input variables and any preprocessing steps you took.	Did not complete this part of the assignment or the explanation of the input variables and any preprocessing steps you took was inappropriate and/or incomplete.	The explanation of the input variables and any preprocessing steps you took was constructed but some of the points were inappropriate or were not identified.	The explanation of the input variables and any preprocessing steps you took was constructed with OK accuracy and some appropriate information was identified and discussed.	The explanation of the input variables and any preprocessing steps you took was constructed with good accuracy and appropriate information was identified and discussed.	The explanation of the input variables and any preprocessing steps you took was constructed with high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	4	6	8	10
7	An explanation of your metrics and justification for your choice.	Did not complete this part of the assignment or the explanation of your metrics and justification was inappropriate and/or incomplete.	The explanation of your metrics and justification was constructed but some of the points were inappropriate or were not identified.	The explanation of your metrics and justification was constructed with OK accuracy and some appropriate information was identified and discussed.	The explanation of your metrics and justification was constructed with good accuracy and appropriate information was identified and discussed.	The explanation of your metrics and justification was constructed with high accuracy and all appropriate information was identified and discussed clearly.

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8	An explanation of your method to validate the model.	Did not complete this part of the assignment or the method to validate the model was inappropriate and/or incomplete.	The method to validate the model was described and discussed but some of the points were inappropriate or were not identified.	The method to validate the model was described and discussed with OK accuracy and some appropriate information was identified and discussed.	The method to validate the model was described and discussed with good accuracy and appropriate information was identified and discussed.	The method to validate the model was described and discussed with high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	4	6	8	10
9	Your results in terms of appropriate metrics for the objective and problem.	Did not complete this part of the assignment or the results in terms of appropriate metrics for the objective and problem were inappropriate and/or incomplete.	The results in terms of appropriate metrics for the objective and problem were written and described but some of the points were inappropriate or were not identified.	The results in terms of appropriate metrics for the objective and problem were written and described with OK accuracy and some appropriate information was identified and discussed.	The results in terms of appropriate metrics for the objective and problem were written and described with good accuracy and appropriate information was identified and discussed.	The results in terms of appropriate metrics for the objective and problem were written and described with high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	6	9	12	15
10	A discussion and/or justification for how you used/didn't use all of the following: selection of the optimum number of units type of network (feedforward, recurrent, backpropagation, and etc.), type of training (supervised, unsupervised),	Did not complete this part of the assignment or the discussion of these items was inappropriate and/or incomplete.	The discussion of these items was written and described but some of the points were inappropriate or were not identified.	The discussion of these items was written and described with OK accuracy and some appropriate information was identified and discussed.	The discussion of these items was written and described with good accuracy and appropriate information was identified and discussed.	The discussion of these items was written and described with high accuracy and all appropriate information was identified and discussed clearly.

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11	A discussion and/or justification for how you used/didn't use all of the following: proportion of training and testing data sets (70:30, 80:20, and etc.), number of input and output units (usually application dependent), number and size of hidden layers (2N+1, experimental),	Did not complete this part of the assignment or the discussion of these items was inappropriate and/or incomplete.	The discussion of these items was written and described but some of the points were inappropriate or were not identified.	The discussion of these items was written and described with OK accuracy and some appropriate information was identified and discussed.	The discussion of these items was written and described with good accuracy and appropriate information was identified and discussed.	The discussion of these items was written and described high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	4	6	8	10
12	A discussion and/or justification for how you used/didn't use all of the following: experimental), number of repetitions during training (epoch), choice of activation function (sigmoid, linear, Tanh, ReLU, and etc.) and	Did not complete this part of the assignment or the discussion of these items was inappropriate and/or incomplete.	The discussion of these items was written and described but some of the points were inappropriate or were not identified.	The discussion of these items was written and described with OK accuracy and some appropriate information was identified and discussed.	The discussion of these items was written and described with good accuracy and appropriate information was identified and discussed.	The discussion of these items was written and described high accuracy and all appropriate information was identified and discussed clearly.

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13	A discussion and/or justification for how you used/didn't use all of the following: size of data set (number of records) learning rate momentum.	Did not complete this part of the assignment or the discussion of these items was inappropriate and/or incomplete.	The discussion of these items was written and described but some of the points were inappropriate or were not identified.	The discussion of these items was written and described with OK accuracy and some appropriate information was identified and discussed.	The discussion of these items was written and described with good accuracy and appropriate information was identified and discussed.	The discussion of these items was written and described with high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	4	6	8	10
14	Discussion and further work.	Did not complete this part of the assignment or the discussion and further work was inappropriate and/or incomplete.	The discussion and further work was complete and described but some of the points were inappropriate or were not identified.	The discussion and further work was complete and described with OK accuracy and some appropriate information was identified and discussed.	The discussion and further work was complete and described with good accuracy and appropriate information was identified and discussed.	The discussion and further work was complete and described with high accuracy and all appropriate information was identified and discussed clearly.
Points:		0	4	6	8	10
15	For each line of the code that you used for the assignment, other than those containing 'from' and/or 'import', please insert a comment above stating what each line does.	Did not complete this part of the assignment or the code commenting was inappropriate and/or incomplete.	The code commenting was complete and described but some of the points were inappropriate or were not identified.	The code commenting was complete and described with OK accuracy and some appropriate information was identified and discussed.	The code commenting was complete and described with good accuracy and appropriate information was identified and discussed.	The code commenting was complete and described with high accuracy and all appropriate information was identified and discussed clearly.

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## Expectations

Make few or no grammatical, spelling, or syntactical errors.

Show any or all of the following:

- Critical thinking\*
- Original thinking\*
- Researched examples

\*Critical/original thinking: Demonstrate new approaches and/or ability to "push back" rather than simply reproducing another's thoughts.

Use direct quotations sparingly and judiciously.

Properly identify any sources and integrate into own thoughts and ideas.

Provide a straightforward, easy-to-follow arrangement with appropriate formatting:

- Comply with APA format.
- Answers clearly marked and named within assignment file(s).

## Outcomes\_Assessed