Congratulations! You passed!

Grade received 100% | Latest Submission Grade 100% | To pass 80% or higher

Go to next item

This is the rubric for the Course 6 end-of-course project. The rubric was designed to be applicable to all of the project scenarios. You will use this rubric to review and grade your own work. The rubric grading process is an important part of the learning experience because it allows you to *objectively* assess your end-of-course project against a set of criteria.

There are a total of 15 points for the end-of-course project and 15 items in this rubric. Each rubric item is worth 1 point. The items are grouped by topic and correspond to each step you completed for the Course 6 end-of-course project.

To use the rubric, first open your workplace scenario notebook, executive summary, and PACE strategy document. Next, review each rubric item's grading criteria. Then respond to each statement by marking "yes" or "no."

When you complete and submit the rubric, you will receive a percentage score. This score will help you confirm whether you completed the required steps of the end-of-course project; the recommended passing grade for this project is 80% (or 12/15 points). If you want to increase your score, you can revise your project and then resubmit this rubric to reflect any changes you make. Try to achieve at least 12 points on this rubric before continuing on to the next course.

Imports

The following rubric items assess the imports for your end-of-course project.

1. Applicable packages and libraries were imported to the code notebook. — 1 / 1 point

- (•) Yes
- ( ) No

Correct

Feature Engineering

The following rubric items assess the feature engineering work you completed for your end-of-course project.

2. Categorical variables were encoded as binary variables. — 1 / 1 point

- (•) Yes
- ( ) No

Correct

3. A target variable was assigned. — 1 / 1 point

- (•) Yes
- ( ) No

Correct

4. An evaluation metric was chosen. — 1 / 1 point

- (•) Yes
- ( ) No

Correct

Machine Learning Modeling

The following rubric items assess the machine learning modeling you completed for your end-of-course project.

5. The data was split into training and testing sets. — 1 / 1 point

- (•) Yes
- ( ) No

Correct

6. The following steps were performed for the random forest model: — 1 / 1 point

- [x] Performed a GridSearch to tune hyperparameters

Correct

- [x] Captured precision, recall, F1 score, and accuracy metrics

Correct

- [x] Obtained validation scores of best model

Correct

7. The following steps were performed for the XGBoost model: — 1 / 1 point

- [x] Performed a GridSearch to tune hyperparameters

Correct

- [x] Captured precision, recall, F1 score, and accuracy metrics

Correct

- [x] Obtained validation scores of best model

Correct

8. The random forest model was compared to the XGBoost model. — 1 / 1 point

- (•) Yes
- ( ) No

Correct

9. A confusion matrix was plotted. 1 / 1 point

- (•) Yes
- ( ) No

Correct

10. The top 10 most important features of the final model were inspected. 1 / 1 point

- (•) Yes
- ( ) No

Correct

Results and/or Evaluation

The following rubric items assess the concluding steps of your end-of-course project, including evaluation and summary of findings.

11. All questions in the code notebook were answered. 1 / 1 point

- (•) Yes
- ( ) No

Correct

12. All questions in the PACE strategy document were answered. 1 / 1 point

- (•) Yes
- ( ) No

Correct

13. The executive summary clearly articulated the challenges presented in this data project. 1 / 1 point

- (•) Yes
- ( ) No

Correct

14. The executive summary identified the outcome of your work. 1 / 1 point

- (•) Yes
- ( ) No

Correct

15. The executive summary included recommendations for future work/next steps. 1 / 1 point

- (•) Yes
- ( ) No

Correct