

Return to "Machine Learning Engineer Nanodegree"
in the classroom

DISCUSS ON STUDENT HUB

Finding Donors for CharityML

REVIEW
CODE REVIEW
HISTORY

Meets Specifications

Congratulations on passing the project! Please find my thoughts and suggestions below.

Good luck with the rest of the course!:)

Exploring the Data

Student's implementation correctly calculates the following:

- · Number of records
- Number of individuals with income >\$50,000
- Number of individuals with income <=\$50,000
- Percentage of individuals with income > \$50,000

All the values here are correct!

Preparing the Data

Student correctly implements one-hot encoding for the feature and income data.

Correctly one-hot encoded the required features.

Here are a couple links talking about the needs and the methods of one-hot encoding

https://machinelearningmastery.com/why-one-hot-encode-data-in-machine-learning/

https://machinelearningmastery.com/how-to-one-hot-encode-sequence-data-in-python/

Evaluating Model Performance

Student correctly calculates the benchmark score of the naive predictor for both accuracy and F1 scores.

Good job correctly calculating the accuracy and the f-score!

The pros and cons or application for each model is provided with reasonable justification why each model was chosen to be explored.

Please list all the references you use while listing out your pros and cons.

Good job listing out the pros, cons, applications and model suitability with references!

Student successfully implements a pipeline in code that will train and predict on the supervised learning algorithm given.

The training pipeline has been correctly implemented!

Student correctly implements three supervised learning models and produces a performance visualization.

Now you can clearly see the difference in the training time and performance metrics of different models when varying quantities of training data is available.

Improving Results

Justification is provided for which model appears to be the best to use given computational cost, model performance, and the characteristics of the data.

Very well reasoned out!

Student is able to clearly and concisely describe how the optimal model works in layman's terms to someone who is not familiar with machine learning nor has a technical background.

Good job here! The language used is simple and the concept is explained well enough for a layperson to get a primary grasp on the concept.

The final model chosen is correctly tuned using grid search with at least one parameter using at least three settings. If the model does not need any parameter tuning it is explicitly stated with reasonable justification.

Good job correctly implementing GridSearch to tune the hyper parameters of the model.

Student reports the accuracy and F1 score of the optimized, unoptimized, models correctly in the table provided. Student compares the final model results to previous results obtained.

Now you can see the difference - albeit minor - between the optimized and un-optimized versions of your mod

Feature Importance

Student ranks five features which they believe to be the most relevant for predicting an individual's' income. Discussion is provided for why these features were chosen.

Features are intuitively chosen and well explained!

Student correctly implements a supervised learning model that makes use of the feature_importances_ attribute. Additionally, student discusses the differences or similarities between the features they considered relevant and the reported relevant features.

Student analyzes the final model's performance when only the top 5 features are used and compares this performance to the optimized model from Question 5.

Good discussion here. Given that training time isn't a factor, it is almost always desirable to train on a full set of features.



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RETURN TO PATH

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