UDACITY

Back to Machine Learning Engineer Nanodegree

Building a Student Intervention System

REVIEW

HISTORY

Requires Changes

1 SPECIFICATION REQUIRES CHANGES

Good work in general! You're super close to finishing this assignment!!
Just have a look at my feedback, correct the small issue I pointed out and you'll be good to go!
Also, I would suggest you remove all the print function you added, they make your code less legible :)
Good luck! I look forward to seeing the amazing things you build next :)

Classification vs Regression

Student is able to correctly identify which type of prediction problem is required and provided reasonable justification.

Good job!

Exploring the Data

Student response addresses the most important characteristics of the dataset and uses these characteristics to inform their decision making. Important characteristics must include:

- **Number of data points**
- **Number of features**
- **Number of graduates**
- **Number of non-graduates**
- **Graduation rate**

Well done!

Preparing the Data

Code has been executed in the iPython notebook, with proper output and no errors.

Well done!

Training and test sets have been generated by randomly sampling the overall dataset.

Good job!

Training and Evaluating Models

Three supervised models are chosen with reasonable justification. Pros and cons for the use of each model are provided, along with discussion of general applications for each model.

Please list out all references you use while stating your pros and cons for the various models.

Well done!

All the required time and F1 scores for each model and training set sizes are provided within the chart given. The performance metrics are reasonable relative to other models measured.

Good work!

Choosing the Best Model

Justification is provided for which model seems to be the best by comparing the computational cost and accuracy of each model.

Good effort here!
While I appreciate that sometimes you should take into account computational cost and not only accuracy, but in this case the difference in computational cost is so low that I think you should have chosen SVC.
While training and predicting takes "x7" more time, it's still so low that it's irrelevant. You need to look at absolute numbers in those cases and not on if something takes 100x more time. Many times engineers are fighting for each extra 0.1% accuracy they can get.

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

Good job!

The final model chosen is correctly tuned using gridsearch 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! You were able to improve your Gaussian NB performance

The F1 score is provided from the tuned model and performs approximately as well or better than the default model chosen.

Good job!

Quality of Code

Code reflects the description in the documentation.

Good job!

RESUBMIT

DOWNLOAD PROJECT

Best practices for your project resubmission

Ben shares 5 helpful tips to get you through revising and resubmitting your project.

Watch Video (3:01)

RETURN TO PATH

Student FAQ