UDACITY

PROJECT

# Building a Student Intervention System

A part of the Machine Learning Engineer Nanodegree Program

PROJECT REVIEW

CODE REVIEW

NOTES

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## Requires Changes

1 SPECIFICATION REQUIRES CHANGES

Dear student,

well done improving your submission, the only reason for your good work not meeting requirements is that there are margins for improvement in the pros and cons section. A more rational formatting would help and improve your communication a lot. It is not easy to isolate the pros and cons and the rationale for choosing each algorithm as it should be. Your coding section is fine and the project is generally thorough and cared for, please improve that section and provide, in a clearer way, all the information required and you will make it for excellent project.

You're almost there, keep up your excellent work!

### Classification vs Regression

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

## 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**

## Preparing the Data

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

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

## Training and Evaluating Models

**The pros and cons of application for each model is provided with reasonable justification why each model was chosen to explore.**

Dear student, I have to insist on the pros and cons section for several reasons:

1. The answer is not quite focused and it's sometimes not so easy to follow, a better formatting would improve it a lot and would give your good work the shine it deserves.
2. I've not been able to find a specific con for the KNN

In general I think it would help a lot to clearly separate the different paragraphs regarding each algorithm and, when discussing the single algorithm it would be helpful to clearly indicate the pros and the cons, this would help a lot the readability. It could be something like this:

SVC: description
Pros:
Cons:
Reasons for choosing it:

Communicating in a clear and simple way complex concepts is a key skill in machine learning. Sometimes communicating results properly is as important as the results themselves. Preparing students for that mindset is the purpose of this section.

**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.**

## 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.**

**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.**

**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.**

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

## Quality of Code

**Code reflects the description in the documentation.**

RESUBMIT

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## Best practices for your project resubmission

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

Watch Video (3:01)

Have a question about your review? Email us at review-support@udacity.com and include the link to this review.

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