## **Udacity Mentors Review**

## **Project-2: Plagariasm Detector**

## **Meets Specifications**

Congratulations on passing this project!

It was really a great experience reviewing your project.

Keep learning and don't stop! Good luck with future submissions:)

#### All Required Files and Tests

The submission includes complete notebook files as .ipynb:

"2\_Plagiarism\_Feature\_Engineering" and "3\_Training\_a\_Model". And the test and helper files are included: "problem\_unittests.py", "helpers.py". The submission also includes a training directory source\_sklearn OR source\_pytorch.

All files are correctly submitted. Great!

All the unit tests in project have passed.

You passed all the unit tests in the project. Well done!

#### **Notebook 2: DataFrame Pre-Processing**

The function numerical\_dataframe should be complete, reading in the original file\_information.csv file and returning a DataFrame of information with a numerical Category column and new, Class column.

There is no code requirement here, just make sure you run all required cells to create a complete\_df that holds pre-processed file text data and Datatype information.

#### Notebook 2: Features Created

The function calculate\_containment should be complete, taking in the necessary information and returning a single, normalized containment value for a given answer file.

Great!

Provide an answer to the question about containment feature calculation.

Great answer!

The function <code>lcs\_norm\_word</code> should be complete, taking in two texts and returning a single, normalized LCS value.

Well done!

Define an n-gram range to calculate multiple containment features. Run the code to calculate one LCS feature, and create a DataFrame that holds all of these feature calculations.

#### **Notebook 2: Train and Test Files Created**

Complete the function train\_test\_data. This should return only a *selection* of training and test features, and corresponding class labels.

Select a few features to use in your final training and test data.

Provide an answer that describes why you chose your final features.

Implement the make\_csv function. The class labels for train/test data should be in the first column of the csv file; selected features in the rest of the columns. Run the rest of the cells to create train.csv and test.csv files.

Kindly remove any incomplete row, in a DataFrame, by using dropna.

### **Notebook 3: Data Upload**

Upload the train.csv file to a specified directory in an S3 bucket.

## **Notebook 3: Training a Custom Model**

Complete at least *one* of the train.py files by instantiating a model, and training it in the main if statement. If you are using a custom PyTorch model, you will have to complete the model.py file, as well (you do not have to do so if you choose to use an imported sklearn model).

Define a custom sklearn OR PyTorch estimator by passing in the required arguments.

Well done for choosing SVC!

Fit your estimator (from the previous rubric item) to the training data you stored in S3.

## **Notebook 3: Deploying and Evaluating a Model**

Deploy the model and create a predictor by specifying a deployment instance.

Pass test data to your deployed predictor and evaluate its performance by comparing its predictions to the true, class labels. Your model should get at least 90% test accuracy.

Perfect!

Accuracy: 1.0

Provide an answer to the two model-related questions.

Great analysis of the performance!

# **Notebook 3: Cleaning up Resources**

Run the code to clean up your final model resources.

Kindly run the code to clean up your final model resources.