

 Return to "Machine Learning Engineer Nanodegree" in the classroom

DISCUSS ON STUDENT HUB

Plagiarism Detector

REVIEW
CODE REVIEW
HISTORY

Meets Specifications

Congratulations on completing the project! This approach is good, when we have very little data to train and build a model. You should be very proud of your accomplishments. Keep learning

All Required Files and Tests

The submission includes complete notebook files as <code>.ipynb</code>: "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 <code>source_sklearn</code> OR <code>source_pytorch</code>.

All the required files are included.

All the unit tests in project have passed.

All tests passed. Good job!!

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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.

New columns 'Category' and 'Class' were added correctly.

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.

printing from complete_df looks good

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.

Provide an answer to the question about containment feature calculation.

The function lcs_norm_word should be complete, taking in two texts and returning a single, normalized LCS value.

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.

Is not it decided on using a correlation cutoff value of 0.95 (say)?? That is, if features had a higher correlation value than that, I choose not to include them in my model. This left me with only a few features to choose from, and I choose one short and one long ngram containment feature (c_1 and c_5), and the lcs_word feature.

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.

Notebook 3: Data Upload

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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).

run well without error

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

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

training success

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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.

96% test accuracy 👍

Provide an answer to the two model-related questions.

Notebook 3: Cleaning up Resources

Run the code to clean up your final model resources.

You can also do from the notebook itself as given in that cell. Either way is correct

bucket_to_delete = boto3.resource('s3').Bucket(bucket)
bucket_to_delete.objects.all().delete()

■ DOWNLOAD PROJECT

RETURN TO PATH

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