UDACITY

☰

Dog Breed Classifier

REVIEW
HISTORY

Meets Specifications

Files Submitted

✓

The submission includes all required, complete notebook files.

Step 1: Detect Humans

✓

The submission returns the percentage of the first 100 images in the dog and human face datasets that include a detected, human face.

Step 2: Detect Dogs

✓

Use a pre-trained VGG16 Net to find the predicted class for a given image. Use this to complete a `dog_detector` function below that returns True if a dog is detected in an image (and False if not).

✓

The submission returns the percentage of the first 100 images in the dog and human face datasets that include a detected dog.

Step 3: Create a CNN to Classify Dog Breeds (from Scratch)

✓

Write three separate data loaders for the training, validation, and test datasets of dog images. These images should be pre-processed to be of the correct size.

✓

Answer describes how the images were pre-processed and/or augmented.

✓

The submission specifies a CNN architecture.

✓

Answer describes the reasoning behind the selection of layer types.

✓

Choose appropriate loss and optimization functions for this classification task. Train the model for a number of epochs and save the "best" result.

✓

The trained model attains at least 10% accuracy on the test set.

great job with cross 10% benchmark. in your free time try for going above 15%. A lot of people have achieved that.

Step 4: Create a CNN Using Transfer Learning

✓

The submission specifies a model architecture that uses part of a pre-trained model.

✓

The submission details why the chosen architecture is suitable for this classification task.

✓

Train your model for a number of epochs and save the result wth the lowest validation loss.

✓

Accuracy on the test set is 60% or greater.

✓

The submission includes a function that takes a file path to an image as input and returns the dog breed that is predicted by the CNN.

Step 5: Write Your Algorithm

✓

The submission uses the CNN from the previous step to detect dog breed. The submission has different output for each detected image type (dog, human, other) and provides either predicted actual (or resembling) dog breed.

Step 6: Test Your Algorithm

✓

The submission tests at least 6 images, including at least two human and two dog images.

✓

Submission provides at least three possible points of improvement for the classification algorithm.

⤓ DOWNLOAD PROJECT

RETURN TO PATH