

< Return to Classroom

Dog Breed Classifier

	REVIEW	
Meets Specifications		
		Hi
I've reviewed your previous submission. I won't repeat myself. I'	ve checked that you have completed the required questions	
You said adding Image Augmentation could be a good improver Improve Deep Learning Performance	nent and you are right. Keras provides a great tutorial: How	
Some interesting resources:		
Pytorch is an excellent framework to learn too: https://pytorch.co	org/tutorials/beginner/transfer_learning_tutorial.html	
Transfer learning could be used in NLP now. OpenAl released a		
and google too: https://ai.googleblog.com/2018/11/open-source	ing-bert-state-of-art-pre.html	
Some cool stuff in RL: https://openai.com/blog/openai-five/		
Keep up the great work Sincerely		
Leticia		

Step 1: Detect Humans

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

Step 2: Detect Dogs

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

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

The submission specifies a CNN architecture.

The submission specifies the number of epochs used to train the algorithm.

The trained model attains at least 1% accuracy on the test set.

Step 5: Create a CNN to Classify Dog Breeds

The submission downloads the bottleneck features corresponding to one of the Keras pre-trained models (VGG-19, ResNet-50, Inception, or Xception).

The submission specifies a model architecture.

The submission details why the chosen architecture succeeded in the classification task and why earlier attempts were not as successful.

You answered the question 5.

The submission compiles the architecture by specifying the loss function and optimizer.

The submission uses model checkpointing to train the model and saves the model weights with the best validation loss.

The submission loads the model weights that attained the least 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 6: Write Your Algorithm The submission uses the CNN from Step 5 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 7: Test Your Algorithm The submission tests at least 6 images, including at least two human and two dog images. You answered the question 6. **▶** DOWNLOAD PROJECT RETURN TO PATH Rate this review