

Week 2

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Assignment: Exercise 2 - Cats vs. Dogs using augmentation

← Week 2

AH better result without augmentation in week2 exercise

asieh harati Assignment: Exercise 2 - Cats vs. Dogs using augmentation · a year ago

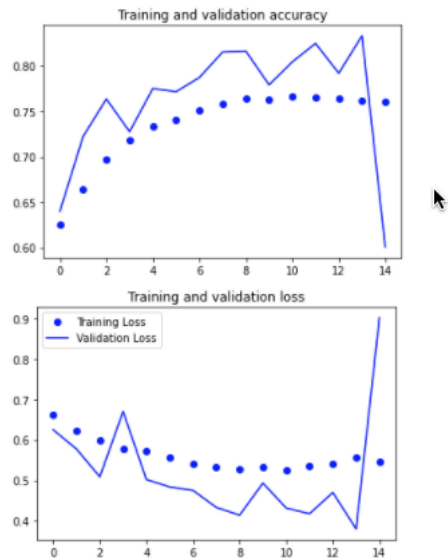
I have submitted and passed my exercise for week 2. However, when I run the code in colab, my validation accuracy and loss is better than my training, which is odd. On top of that, training accuracy reaches ~76% max, which is very far from the 95% expected.

I added the following cell and trained the model without augmentation and surprisingly I get better results. Note that I added *steps_per_epoch* and *validation_steps* to the definition of history. I also replaced *fit* with *fit_generator* (I don't know why in the notebooks this was the case although in the video that Lawrence goes through, it is *fit_generator*)

```
1  train_datagen = ImageDataGenerator(rescale=1./255,) #YOUR CODE HERE
2  # NOTE: YOU MUST USE A BATCH SIZE OF 10 (batch_size=10) FOR THE
3  # TRAIN GENERATOR.
4  train_generator = train_datagen.flow_from_directory(TRAINING_DIR,
5                                                    batch_size=10,
6                                                    class_mode='binary',
7                                                    target_size=(150, 150)) #YOUR CODE HERE
8
9  history = model.fit_generator(train_generator,
10                             epochs=15,
11                             steps_per_epoch=2300, # 22498 images = batch_size * steps
12                             validation_steps=250, # 2500 images = batch_size * steps
13                             validation_data=validation_generator,
14                             verbose=2
15                             )
```

Below you can see the plots.

With augmentation



Without augmentation



I have the following questions:

1-Has anyone reached the expected accuracy (95%) and loss? If so, did you experiment with augmentation values?

2-Why do I have a better result without augmentation?

3-Why in the notebooks we have *fit* instead of *fit_generator*

Thanks!

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KM

Karthik Mohan · a year ago

Hi I have the same issue.i trained for 25 epochs and the accuracy is 71%. does the assignment require us to reach a specific accuracy benchmark?

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Miguel Lasa · a year ago · Edited

Hi Asieh!

- 1) I have never reached the 95% accuracy.
- 2) Don't know, but I'm getting the same.
- 3) `fit_generator` has been deprecated.

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AH

asieh harati · a year ago

Thanks Miguel.

3- I guess you're using TF ver 2 because it is not deprecated before that and I don't get a warning.

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