

• Compiling the model

```
1 model.compile(loss = 'categorical_crossentropy', optimizer = 'adam', metrics = ['accuracy'])  
r = model.fit(training_set, validation_data = test_set, epochs = 40, steps_per_epoch = len(training_set)//32, validation_steps = len(test_set)//32)
```

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Epoch 12/40  
3/3 [=====] - 52s 16s/step - loss: 2.2501 - accuracy: 0.6042  
Epoch 13/40  
3/3 [=====] - 47s 14s/step - loss: 1.1787 - accuracy: 0.7604  
Epoch 14/40  
3/3 [=====] - 49s 15s/step - loss: 1.4312 - accuracy: 0.7917  
Epoch 15/40  
3/3 [=====] - 51s 16s/step - loss: 1.3212 - accuracy: 0.7500  
Epoch 16/40  
3/3 [=====] - 50s 15s/step - loss: 1.7987 - accuracy: 0.6354  
Epoch 17/40  
3/3 [=====] - 48s 14s/step - loss: 1.3420 - accuracy: 0.6875  
Epoch 18/40  
3/3 [=====] - 50s 15s/step - loss: 2.0309 - accuracy: 0.5833  
Epoch 19/40  
3/3 [=====] - 50s 15s/step - loss: 1.5005 - accuracy: 0.6042  
Epoch 20/40  
3/3 [=====] - 50s 14s/step - loss: 1.1720 - accuracy: 0.7083  
Epoch 21/40  
3/3 [=====] - 50s 15s/step - loss: 1.5429 - accuracy: 0.6979  
Epoch 22/40  
3/3 [=====] - 54s 15s/step - loss: 1.1306 - accuracy: 0.7396  
Epoch 23/40  
3/3 [=====] - 48s 14s/step - loss: 1.3043 - accuracy: 0.6771  
Epoch 24/40  
3/3 [=====] - 48s 14s/step - loss: 1.5459 - accuracy: 0.7396  
Epoch 25/40  
3/3 [=====] - 48s 15s/step - loss: 1.0610 - accuracy: 0.6250  
Epoch 26/40  
3/3 [=====] - 47s 14s/step - loss: 1.2918 - accuracy: 0.6771
```

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[ ] Epoch 21/40  
3/3 [=====] - 50s 15s/step - loss: 1.5429 - accuracy: 0.6979  
Epoch 22/40  
3/3 [=====] - 54s 15s/step - loss: 1.1306 - accuracy: 0.7396  
Epoch 23/40  
3/3 [=====] - 48s 14s/step - loss: 1.3043 - accuracy: 0.6771  
Epoch 24/40  
3/3 [=====] - 48s 14s/step - loss: 1.5459 - accuracy: 0.7396  
Epoch 25/40  
3/3 [=====] - 48s 15s/step - loss: 1.0610 - accuracy: 0.6250  
Epoch 26/40  
3/3 [=====] - 47s 14s/step - loss: 1.2918 - accuracy: 0.6771  
Epoch 27/40  
3/3 [=====] - 47s 14s/step - loss: 1.1866 - accuracy: 0.6667  
Epoch 28/40  
3/3 [=====] - 47s 14s/step - loss: 1.0595 - accuracy: 0.7812  
Epoch 29/40  
3/3 [=====] - 38s 15s/step - loss: 1.3182 - accuracy: 0.6923  
Epoch 30/40  
3/3 [=====] - 48s 14s/step - loss: 0.6461 - accuracy: 0.7604  
Epoch 31/40  
3/3 [=====] - 48s 14s/step - loss: 1.2289 - accuracy: 0.6771  
Epoch 32/40  
3/3 [=====] - 54s 17s/step - loss: 0.9484 - accuracy: 0.7188  
Epoch 33/40  
3/3 [=====] - 48s 15s/step - loss: 1.0351 - accuracy: 0.6979  
Epoch 34/40  
3/3 [=====] - 48s 14s/step - loss: 1.4485 - accuracy: 0.7500  
Epoch 35/40  
3/3 [=====] - 47s 14s/step - loss: 1.5413 - accuracy: 0.6979  
Epoch 36/40  
3/3 [=====] - 47s 15s/step - loss: 1.2804 - accuracy: 0.6875  
Epoch 37/40  
3/3 [=====] - 48s 14s/step - loss: 1.4528 - accuracy: 0.6875  
Epoch 38/40  
3/3 [=====] - 48s 14s/step - loss: 1.2701 - accuracy: 0.7604  
Epoch 39/40  
3/3 [=====] - 46s 14s/step - loss: 1.9731 - accuracy: 0.5521  
Epoch 40/40  
3/3 [=====] - 47s 14s/step - loss: 1.0961 - accuracy: 0.7812
```

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