```
conv2d_1 (Conv2D)
                     (None, 28, 28, 32)
                                       320
max_pooling2d_1 (MaxPooling2 (None, 9, 9, 32)
flatten 1 (Flatten) (None, 2592)
                                       165952
                    (None, 64)
dense 1 (Dense)
dropout 1 (Dropout)
                    (None. 64)
dense 2 (Dense)
                    (None. 128)
                                       9270
dropout_2 (Dropout)
                     (None, 128)
                                        1290
Total params: 175,882
Trainable params: 175,882
Non-trainable params: θ
None
Training:

MANNING:tensorflow:From /usr/local/lib/python3.6/dist-packages/tensorflow/python/ops/math_ops.py:3866: to_int32 (from tensorflow.python.ops.math_ops) is deprecated and will be removed in a future version.

Instructions for updating:

Use tf. cast instead.

Epoch 1/10

60080/608090 [==============] - 11s 192us/step - loss: 0.4888 - acc: 6.8449
60000/60000 [===
Epoch 2/10
60000/60000 [===
Epoch 3/10
                         =======] - 11s 192us/step - loss: 0.4888 - acc: 0.8449
            -----] - 7s lllus/step - loss: 0.2158 - acc: 0.9347
            -----] - 7s 11lus/step - loss: 0.1661 - acc: 0.9495
69080/69090 [==
Epoch 4/10
69080/69090 [==
Epoch 5/10
69080/690900 [==
Epoch 6/10
                    60000/60000 [=====
Accuracy: 98.6100%
Accuracy: 50..

Layer (type) Output Snape

(None, 28, 28, 32)
                                       Param #
                                       320
max pooling2d 2 (MaxPooling2 (None, 9, 9, 32)
conv2d 3 (Conv2D)
                    (None, 9, 9, 64)
                                       18496
               (None, 5184)
flatten 2 (Flatten)
dense 4 (Dense)
                    (None. 64)
                                       221040
dropout_3 (Dropout) (None, 64)
                                       8320
dense_5 (Dense)
dropout_4 (Dropout)
dense_6 (Dense)
                                        1296
Total params: 360,266
Trainable params: 360,266
Non-trainable params: 0
None
Training :
Epoch 1/10
60000/60000 [===
Epoch 2/10
60000/60000 [===
Epoch 3/10
60000/60000 [===
Epoch 4/10
60000/60000 [===
                       =======] - 9s 150us/step - loss: 0.4258 - acc: 0.8618
                    Epoch 6/10
60000/60000
                    -----] - 9s 145us/step - loss: 0.0487 - acc: 0.9841
max_pooling2d_3 (MaxPooling2 (None, 9, 9, 32)
conv2d 5 (Conv2D)
                    (None, 9, 9, 64)
                                       18496
                     (None, 9, 9, 64)
conv2d 6 (Conv2D)
                                       36928
flatten 3 (Flatten)
                    (None, 5184)
dense 7 (Dense)
                    (None. 64)
                                       331840
dropout_5 (Dropout)
                    (None, 64)
dense_8 (Dense)
                    (None. 128)
                                       8320
dropout_6 (Dropout)
                    (None, 128)
                                        1290
dense_9 (Dense)
Total params: 397,194
Trainable params: 397,194
Non-trainable params: 0
Non-trainable params
None
Training:
Epoch 1/10
60989/60800 [=====
Epoch 2/10
60989/60800 [=====
Epoch 3/10
60989/60800 [======
Epoch 5/10
60989/60800 [======
Epoch 6/10
60989/60800 [======
                      Epoch 8/10
                 Epoch 9/10
60000/60000 [==
                         (None, 28, 28, 32)
                                       320
```

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max_pooling2d_4 (MaxPooling2 (None, 9, 9, 32)

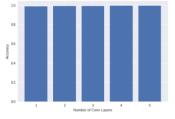
conv2d_8 (Conv2D)	(None, 9, 9, 64)	18496
conv2d_9 (Conv2D)	(None, 9, 9, 64)	36928
conv2d_10 (Conv2D)	(None, 9, 9, 64)	36928
flatten_4 (Flatten)	(None, 5184)	0
dense_10 (Dense)	(None, 64)	331840
dropout_7 (Dropout)	(None, 64)	0
dense_11 (Dense)	(None, 128)	8320
dropout_8 (Dropout)	(None, 128)	0
dense_12 (Dense)	(None, 10)	1290

Total params: 434,122
Trainable params: 434,12

Layer (type)	Output Shape	Param #
conv2d_11 (Conv2D)	(None, 28, 28, 32)	320
max_pooling2d_5 (MaxPooling2	(None, 9, 9, 32)	0
conv2d_12 (Conv2D)	(None, 9, 9, 64)	18496
conv2d_13 (Conv2D)	(None, 9, 9, 64)	36928
conv2d_14 (Conv2D)	(None, 9, 9, 64)	36928
conv2d_15 (Conv2D)	(None, 9, 9, 64)	36928
flatten_5 (Flatten)	(None, 5184)	0
dense_13 (Dense)	(None, 64)	331840
dropout_9 (Dropout)	(None, 64)	0
dense_14 (Dense)	(None, 128)	8320
dropout_10 (Dropout)	(None, 128)	0
dense_15 (Dense)	(None, 10)	1290

Total params: 471,050 Trainable params: 471,050 Non-trainable params: 0

| None |



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