

main



TensorFlow_Tutorials / TensorFlow_2.x / CNN_vs_Dense.ipynb

hy23 Folder restructuring

History

0 contributors

141 lines (141 sloc) | 17 KB



```
In [1]: import tensorflow as tf
from tensorflow import keras
from tensorflow.keras import datasets, models, layers
```

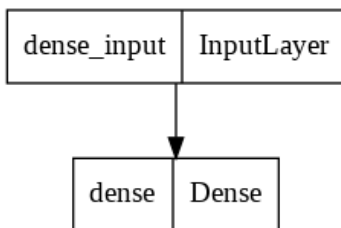
```
In [2]: model_dense = models.Sequential()
model_dense.add(layers.Dense(10, activation='softmax', input_shape=(784,)))
model_dense.summary()
tf.keras.utils.plot_model(model_dense, to_file="model_seq.png")
```

Model: "sequential"

Layer (type)	Output Shape	Param #
dense (Dense)	(None, 10)	7850

=====
Total params: 7,850
Trainable params: 7,850
Non-trainable params: 0

Out[2]:



```
In [4]: model_cnn = models.Sequential()
model_cnn.add(layers.Conv2D(filters=32, kernel_size=(3,3),
                           input_shape=(28, 28, 1), activation='relu'))
model_cnn.summary()
tf.keras.utils.plot_model(model_cnn, to_file="model_cnn.png")
```

Model: "sequential_2"

Layer (type)	Output Shape	Param #
conv2d_1 (Conv2D)	(None, 26, 26, 32)	320

=====
Total params: 320
Trainable params: 320
Non-trainable params: 0

Out[4]:

