
```

import tensorflow as tf

from tensorflow import keras import numpy as np

fashion_mnist=keras.datasets.fashion_mnist

(train_images, train_labels), (test_images, test_labels)=fashion_mnist.load_data() train_
test_images=test_images/255.0

train_images=train_images[0].shape

(28, 28).

train_images=train_images.reshape(len(train_images),28,28,1) test_images=test_images.resha

def build_model (hp):
    model=keras.Sequential([
        keras.layers.Conv2D(
            filters=hp.Int('conv_1_filter', min_value=32, max_value=128, step=16), kernel_size=hp.Ch
            activation='relu',
            input_shape=(28,28,1)
        ), keras.layers.Conv2D(
            filters=hp.Int('conv_2_filter', min_value=32, max_value=64, step=16),
            kernel_size=hp.Choice('conv_2_kernel', values=[3,5]),
            activation='relu'
        ), keras.layers.Flatten(),
        keras.layers.Dense(
            units=hp.Int('dense_1_units', min_value=32, max_value=128, step=16),
            activation='relu'
        ), keras.layers.Dense(10, activation='softmax') #output layer
    ])
    model.compile(optimizer=keras.optimizers.Adam(hp.Choice('learning_rate', values=[1e-2,
    loss=keras.losses.sparse_categorical_crossentropy metrics=['accuracy']))

    return model

from kerastuner import RandomSearch

from kerastuner.engine.hyperparameters import
tuner_search=RandomSearch(build_model,

File

```

Vo) 4G LTE

+ Code

[]

X

Comment

Connect -

Share

Editing

HyperParameters

objective val_accuracy,

max_trials=5, directory output project_name"Mnist Fashion")

INFO: tensorflow: Reloading Oracle from existing project output/Mnist Fashion/oracle.js t

INFO: tensorflow:Oracle triggered exit

model-tuner search.get best models (num_models=1)[0] model.summary()