

Untitled.txt

```
import tensorflow as tf from tensorflow import keras

# Load the MNIST dataset

(x_train, y_train), (x_test, y_test) = keras.datasets.mnist.load_data()

# Normalize the input data x_train = x_train/255.0 x_test = x_test/255.0

# Define the model architecture model = keras. Sequential ([

keras.layers.Flatten(input_shape=(28, 28)), keras.layers.Dense (128,
activation='relu'),

keras.layers.Dense(10, activation='softmax')

])

# Compile the model model.compile(optimizer='adam',
loss='sparse_categorical_crossentropy', metrics=['accuracy'])

# Train the model model.fit(x_train, y_train, epochs=10, validation_data=
(x_test, y_test))

# Evaluate the model test_loss, test_acc = model.evaluate(x_test, y_test,
verbose=2) print('Test accuracy:', test_acc)
```