

Predicción de NMIST

El presente documento es para presentar las corridas del código:

```
python3.12 handwriting.py model.h5
```

loaded data

Imagen guardada en dataset_visualization.png

/Library/Frameworks/Python.framework/Versions/3.12/lib/python3.12/site-

packages/keras/src/layers/convolutional/base_conv.py:107: UserWarning: Do not pass an
`input_shape` / `input_dim` argument to a layer. When using Sequential models, prefer
using an `Input(shape)` object as the first layer in the model instead.

```
super().__init__(activity_regularizer=activity_regularizer, **kwargs)
```

Epoch 1/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.8608 -

loss: 0.4498

Epoch 2/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.9667 -

loss: 0.1096

Epoch 3/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.9760 -

loss: 0.0773

Epoch 4/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.9810 -

loss: 0.0630

Epoch 5/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.9839 -

loss: 0.0512

Epoch 6/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.9849 -

loss: 0.0462

Epoch 7/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.9869 -

loss: 0.0381

Epoch 8/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.9884 -

loss: 0.0350

Epoch 9/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.9897 -

loss: 0.0305

Epoch 10/10

1875/1875 ————— 6s 3ms/step - accuracy: 0.9911 -

loss: 0.0261

trained model

313/313 - 0s - 898us/step - accuracy: 0.9895 - loss: 0.0391

313/313 ————— 0s 777us/step

Imagen guardada en confusion_matrix.png

WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

Model saved to model.h5.





