

jpuyf4x0v

June 19, 2024

```
[ ]: import os
      from google.colab import drive
      drive.mount('/content/drive')
```

```
[ ]: !unzip imagens.zip
```

A saída de streaming foi truncada nas últimas 5000 linhas.

```
extracting: imagens/validation/004_deer/woodland_caribou_s_001564.png
  creating: imagens/validation/005_dog/
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000006.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000039.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000107.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000129.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000232.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000260.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000268.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000322.png
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extracting: imagens/validation/005_dog/blenheim_spaniel_s_000352.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000365.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000415.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000463.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000528.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000663.png
  inflating: imagens/validation/005_dog/blenheim_spaniel_s_000730.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_000740.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_001006.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_001100.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_001106.png
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extracting: imagens/validation/005_dog/blenheim_spaniel_s_001158.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_001169.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_001170.png
extracting: imagens/validation/005_dog/blenheim_spaniel_s_001183.png
extracting: imagens/validation/005_dog/canis_familiaris_s_000067.png
extracting: imagens/validation/005_dog/canis_familiaris_s_000072.png
extracting: imagens/validation/005_dog/canis_familiaris_s_000074.png
extracting: imagens/validation/005_dog/canis_familiaris_s_000085.png
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extracting: imagens/validation/005_dog/king_charles_spaniel_s_000030.png
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extracting: imagens/validation/005_dog/king_charles_spaniel_s_000086.png
extracting: imagens/validation/005_dog/king_charles_spaniel_s_000091.png
extracting: imagens/validation/005_dog/king_charles_spaniel_s_000103.png
extracting: imagens/validation/005_dog/king_charles_spaniel_s_000104.png
extracting: imagens/validation/005_dog/king_charles_spaniel_s_000124.png
extracting: imagens/validation/005_dog/king_charles_spaniel_s_000130.png
extracting: imagens/validation/005_dog/king_charles_spaniel_s_000196.png
extracting: imagens/validation/005_dog/king_charles_spaniel_s_000228.png
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extracting: imagens/validation/005_dog/king_charles_spaniel_s_000255.png
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extracting: imagens/validation/005_dog/king_charles_spaniel_s_000288.png
extracting: imagens/validation/005_dog/king_charles_spaniel_s_000347.png
extracting: imagens/validation/005_dog/lapdog_s_000106.png
extracting: imagens/validation/005_dog/lapdog_s_000425.png
extracting: imagens/validation/005_dog/lapdog_s_000506.png
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extracting: imagens/validation/005_dog/lapdog_s_000889.png
extracting: imagens/validation/005_dog/lapdog_s_000956.png
extracting: imagens/validation/005_dog/lapdog_s_001029.png
extracting: imagens/validation/005_dog/lapdog_s_001066.png
extracting: imagens/validation/005_dog/lapdog_s_001211.png
extracting: imagens/validation/005_dog/lapdog_s_001305.png
extracting: imagens/validation/005_dog/lapdog_s_001353.png
extracting: imagens/validation/005_dog/lapdog_s_001393.png
extracting: imagens/validation/005_dog/lapdog_s_001515.png
extracting: imagens/validation/005_dog/lapdog_s_001535.png
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extracting: imagens/validation/005_dog/lapdog_s_002104.png
extracting: imagens/validation/005_dog/lapdog_s_002123.png
extracting: imagens/validation/005_dog/lapdog_s_002295.png
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extracting: imagens/validation/005_dog/maltese_dog_s_000091.png
extracting: imagens/validation/005_dog/maltese_dog_s_000234.png

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 inflating: imagens/validation/005_dog/toy_dog_s_000071.png
extracting: imagens/validation/005_dog/toy_dog_s_000103.png
extracting: imagens/validation/005_dog/toy_dog_s_000124.png
extracting: imagens/validation/005_dog/toy_dog_s_000139.png
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creating: imagens/validation/006_frog/

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extracting: imagens/validation/006_frog/grass_frog_s_001375.png
extracting: imagens/validation/006_frog/grass_frog_s_001403.png
extracting: imagens/validation/006_frog/grass_frog_s_001422.png
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extracting: imagens/validation/006_frog/grass_frog_s_001686.png
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extracting: imagens/validation/006_frog/leptodactylid_s_000067.png
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extracting:
imagens/validation/006_frog/leptodactylus_pentadactylus_s_000005.png
extracting:
imagens/validation/006_frog/leptodactylus_pentadactylus_s_000006.png
extracting:
imagens/validation/006_frog/leptodactylus_pentadactylus_s_000012.png
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extracting:
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extracting:
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extracting: imagens/validation/006_frog/rana_catesbeiana_s_000197.png
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extracting: imagens/validation/006_frog/rana_catesbeiana_s_000485.png
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extracting: imagens/validation/006_frog/rana_catesbeiana_s_000590.png
extracting: imagens/validation/006_frog/rana_catesbeiana_s_000637.png

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extracting: imagens/validation/007_horse/appaloosa_s_000560.png
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[illegible]


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[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

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extracting: imagens/validation/009_truck/trucking_rig_s_001197.png
extracting: imagens/validation/009_truck/trucking_rig_s_001202.png
extracting: imagens/validation/009_truck/trucking_rig_s_001203.png
extracting: imagens/validation/009_truck/trucking_rig_s_001211.png
extracting: imagens/validation/009_truck/trucking_rig_s_001212.png

[illegible]

[illegible]


```
extracting: imagens/validation/009_truck/truck_s_002137.png
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extracting: imagens/validation/009_truck/truck_s_002312.png
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extracting: imagens/validation/009_truck/wrecker_s_001962.png
extracting: imagens/validation/009_truck/wrecker_s_002157.png
extracting: imagens/validation/009_truck/wrecker_s_002186.png
extracting: imagens/validation/009_truck/wrecker_s_002242.png
extracting: imagens/validation/009_truck/wrecker_s_002251.png
  inflating: imagens/validation/009_truck/wrecker_s_002282.png
extracting: imagens/validation/009_truck/wrecker_s_002410.png
```

```
[ ]: import os
base_dir = '/content/imagens' # Diretório base após descompactação
train_dir = os.path.join(base_dir, 'train')
validation_dir = os.path.join(base_dir, 'validation')
test_dir = os.path.join(base_dir, 'test')
```

```
[ ]: from keras.utils import image_dataset_from_directory
IMG_SIZE = 150
train_dataset = image_dataset_from_directory(
    train_dir,
    image_size=(IMG_SIZE, IMG_SIZE),
    batch_size=32,
```

```

)
validation_dataset = image_dataset_from_directory(
    validation_dir,
    image_size=(IMG_SIZE, IMG_SIZE),
    batch_size=32,
)
test_dataset = image_dataset_from_directory(
    test_dir,
    image_size=(IMG_SIZE, IMG_SIZE),
    batch_size=32,
)

```

Found 40000 files belonging to 10 classes.
Found 10000 files belonging to 10 classes.
Found 10000 files belonging to 10 classes.

```

[ ]: from tensorflow import keras
from tensorflow.keras import layers
from tensorflow.keras.preprocessing import image
import numpy as np
import tensorflow as tf

from tensorflow.keras.applications import VGG16

conv_base = VGG16(weights='imagenet', include_top=False, input_shape=(IMG_SIZE,
    ↪ IMG_SIZE, 3))
conv_base.trainable = False

data_augmentation = keras.Sequential(
    [
        layers.RandomFlip("horizontal"),
        layers.RandomRotation(0.1),
        layers.RandomZoom(0.2),
    ]
)

inputs = keras.Input(shape=(IMG_SIZE, IMG_SIZE, 3))
x = data_augmentation(inputs)
x = keras.applications.vgg16.preprocess_input(x)
x = conv_base(x)
x = layers.Flatten()(x)
x = layers.Dense(256, activation='relu')(x)
x = layers.Dropout(0.5)(x)
outputs = layers.Dense(10, activation="softmax")(x)
model = keras.Model(inputs, outputs)

```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/vgg16/vgg16_weights_tf_dim_ordering_tf_kernels_notop.h5
58889256/58889256 [=====] - 1s 0us/step

```
[ ]: from tensorflow.keras.optimizers import Adam
```

```
model.compile(  
    optimizer=Adam(learning_rate=0.0001),  
    loss='sparse_categorical_crossentropy',  
    metrics=['accuracy']  
)
```

```
[ ]: from keras.callbacks import ReduceLROnPlateau, EarlyStopping, ModelCheckpoint,  
↳ TensorBoard
```

```
reduce_lr = ReduceLROnPlateau(  
    monitor='val_loss',  
    factor=0.2,  
    patience=2,  
    min_lr=0.00001  
)
```

```
[ ]: early_stopping = EarlyStopping(  
    monitor='val_loss',  
    patience=10,  
    restore_best_weights=True  
)
```

```
[ ]: model_checkpoint = ModelCheckpoint(  
    filepath='models/ModelT_AdamOptimizerComData.h5',  
    save_best_only=True,  
    monitor='val_loss'  
)
```

```
[ ]: callbacks = [reduce_lr, early_stopping, model_checkpoint]
```

```
history = model.fit(  
    train_dataset,  
    validation_data=validation_dataset,  
    epochs=50,  
    callbacks=callbacks  
)
```

Epoch 1/50

1250/1250 [=====] - 117s 87ms/step - loss: 1.9022 -
accuracy: 0.5503 - val_loss: 0.6176 - val_accuracy: 0.7996 - lr: 1.0000e-04

Epoch 2/50

```
/usr/local/lib/python3.10/dist-packages/keras/src/engine/training.py:3103:  
UserWarning: You are saving your model as an HDF5 file via `model.save()`. This  
file format is considered legacy. We recommend using instead the native Keras  
format, e.g. `model.save('my_model.keras')`.
```

```
saving_api.save_model(  

```

```
1250/1250 [=====] - 111s 89ms/step - loss: 0.9402 -  
accuracy: 0.6970 - val_loss: 0.5170 - val_accuracy: 0.8361 - lr: 1.0000e-04  
Epoch 3/50  
1250/1250 [=====] - 111s 89ms/step - loss: 0.8101 -  
accuracy: 0.7334 - val_loss: 0.4768 - val_accuracy: 0.8482 - lr: 1.0000e-04  
Epoch 4/50  
1250/1250 [=====] - 112s 89ms/step - loss: 0.7455 -  
accuracy: 0.7548 - val_loss: 0.4585 - val_accuracy: 0.8572 - lr: 1.0000e-04  
Epoch 5/50  
1250/1250 [=====] - 111s 89ms/step - loss: 0.6787 -  
accuracy: 0.7754 - val_loss: 0.4487 - val_accuracy: 0.8632 - lr: 1.0000e-04  
Epoch 6/50  
1250/1250 [=====] - 111s 89ms/step - loss: 0.6473 -  
accuracy: 0.7868 - val_loss: 0.4396 - val_accuracy: 0.8636 - lr: 1.0000e-04  
Epoch 7/50  
1250/1250 [=====] - 132s 105ms/step - loss: 0.6258 -  
accuracy: 0.7948 - val_loss: 0.4181 - val_accuracy: 0.8700 - lr: 1.0000e-04  
Epoch 8/50  
1250/1250 [=====] - 111s 89ms/step - loss: 0.5955 -  
accuracy: 0.8054 - val_loss: 0.4313 - val_accuracy: 0.8717 - lr: 1.0000e-04  
Epoch 9/50  
1250/1250 [=====] - 111s 88ms/step - loss: 0.5757 -  
accuracy: 0.8082 - val_loss: 0.4241 - val_accuracy: 0.8727 - lr: 1.0000e-04  
Epoch 10/50  
1250/1250 [=====] - 131s 104ms/step - loss: 0.5370 -  
accuracy: 0.8202 - val_loss: 0.4079 - val_accuracy: 0.8766 - lr: 2.0000e-05  
Epoch 11/50  
1250/1250 [=====] - 131s 105ms/step - loss: 0.5150 -  
accuracy: 0.8247 - val_loss: 0.4085 - val_accuracy: 0.8775 - lr: 2.0000e-05  
Epoch 12/50  
1250/1250 [=====] - 112s 89ms/step - loss: 0.5078 -  
accuracy: 0.8314 - val_loss: 0.4095 - val_accuracy: 0.8792 - lr: 2.0000e-05  
Epoch 13/50  
1250/1250 [=====] - 110s 88ms/step - loss: 0.4920 -  
accuracy: 0.8350 - val_loss: 0.4123 - val_accuracy: 0.8792 - lr: 1.0000e-05  
Epoch 14/50  
1250/1250 [=====] - 111s 88ms/step - loss: 0.4870 -  
accuracy: 0.8364 - val_loss: 0.4121 - val_accuracy: 0.8808 - lr: 1.0000e-05  
Epoch 15/50  
1250/1250 [=====] - 130s 104ms/step - loss: 0.4857 -  
accuracy: 0.8377 - val_loss: 0.4087 - val_accuracy: 0.8810 - lr: 1.0000e-05  
Epoch 16/50
```

```

1250/1250 [=====] - 111s 89ms/step - loss: 0.4788 -
accuracy: 0.8386 - val_loss: 0.4108 - val_accuracy: 0.8807 - lr: 1.0000e-05
Epoch 17/50
1250/1250 [=====] - 111s 89ms/step - loss: 0.4696 -
accuracy: 0.8400 - val_loss: 0.4122 - val_accuracy: 0.8811 - lr: 1.0000e-05
Epoch 18/50
1250/1250 [=====] - 111s 89ms/step - loss: 0.4723 -
accuracy: 0.8418 - val_loss: 0.4086 - val_accuracy: 0.8812 - lr: 1.0000e-05
Epoch 19/50
1250/1250 [=====] - 111s 89ms/step - loss: 0.4673 -
accuracy: 0.8421 - val_loss: 0.4098 - val_accuracy: 0.8816 - lr: 1.0000e-05
Epoch 20/50
1250/1250 [=====] - 112s 89ms/step - loss: 0.4652 -
accuracy: 0.8443 - val_loss: 0.4080 - val_accuracy: 0.8828 - lr: 1.0000e-05

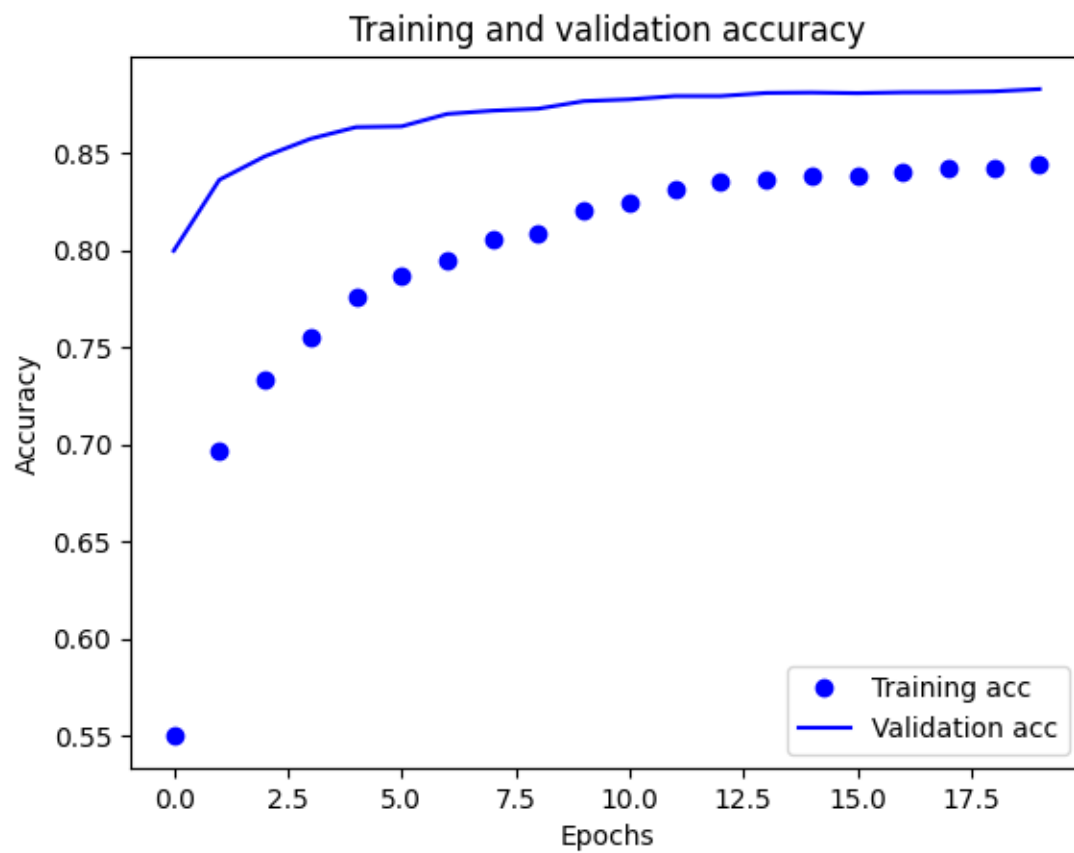
```

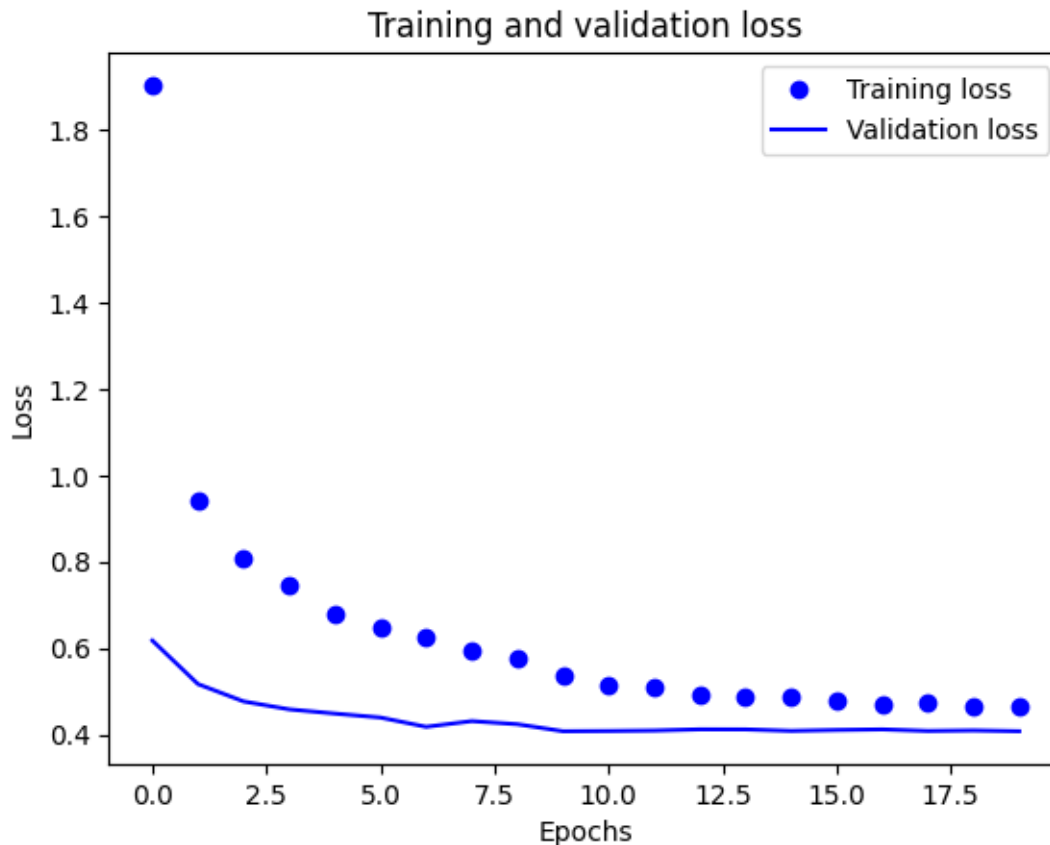
```

[ ]: import matplotlib.pyplot as plt
plt.plot(history.history['accuracy'], 'bo', label='Training acc')
plt.plot(history.history['val_accuracy'], 'b', label='Validation acc')
plt.title('Training and validation accuracy')
plt.xlabel('Epochs')
plt.ylabel('Accuracy')
plt.legend()
plt.show()

plt.plot(history.history['loss'], 'bo', label='Training loss')
plt.plot(history.history['val_loss'], 'b', label='Validation loss')
plt.title('Training and validation loss')
plt.xlabel('Epochs')
plt.ylabel('Loss')
plt.legend()
plt.show()

```





```
[ ]: val_loss, val_acc = model.evaluate(validation_dataset)
      print('Validation Accuracy:', val_acc)
```

```
313/313 [=====] - 22s 69ms/step - loss: 0.4079 -
accuracy: 0.8766
Validation Accuracy: 0.8766000270843506
```

```
[ ]: loss, accuracy = model.evaluate(test_dataset)
      print(f"Loss: {loss}, Accuracy: {accuracy}")
```

```
313/313 [=====] - 22s 70ms/step - loss: 0.3914 -
accuracy: 0.8774
Loss: 0.39137837290763855, Accuracy: 0.8773999810218811
```

```
[ ]: import numpy as np
      from sklearn.metrics import confusion_matrix, classification_report
      import seaborn as sns
      import matplotlib.pyplot as plt

      # Function to evaluate the model and get true and predicted labels
```

```

def evaluate_model(model, dataset):
    all_labels = []
    all_predictions = []

    for images, labels in dataset:
        predictions = model.predict(images)
        predicted_labels = np.argmax(predictions, axis=1)
        true_labels = labels.numpy() # Convert to numpy array if not already

        all_labels.extend(true_labels)
        all_predictions.extend(predicted_labels)

    return np.array(all_labels), np.array(all_predictions)

# Get true and predicted labels for the test dataset
true_labels, predicted_labels = evaluate_model(model, test_dataset)

# Compute the confusion matrix
conf_matrix = confusion_matrix(true_labels, predicted_labels)

# Plot the confusion matrix
plt.figure(figsize=(10, 8))
sns.heatmap(conf_matrix, annot=True, fmt="d", cmap="Blues",
            xticklabels=range(10), yticklabels=range(10))
plt.title('Matriz de Confusão')
plt.xlabel('Previsão')
plt.ylabel('Realidade')
plt.show()

# Print classification report
class_names = [str(i) for i in range(10)] # Define class names based on your
dataset
print(classification_report(true_labels, predicted_labels,
                             target_names=class_names))

# Extract precision, recall, and F1-score for each class from classification
report
report = classification_report(true_labels, predicted_labels,
                              target_names=class_names, output_dict=True)

metrics = {'precision': [], 'recall': [], 'f1-score': []}
for cls in class_names:
    metrics['precision'].append(report[cls]['precision'])
    metrics['recall'].append(report[cls]['recall'])
    metrics['f1-score'].append(report[cls]['f1-score'])

# Plot precision, recall, and F1-score

```



```

plt.figure(figsize=(10, 6))
bar_width = 0.2
index = np.arange(len(class_names))

plt.bar(index, metrics['precision'], bar_width, label='Precision')
plt.bar(index + bar_width, metrics['recall'], bar_width, label='Recall')
plt.bar(index + 2*bar_width, metrics['f1-score'], bar_width, label='F1-score')

plt.xlabel('Class')
plt.ylabel('Scores')
plt.title('Precision, Recall e F1-score para cada classe')
plt.xticks(index + bar_width, class_names)
plt.legend()

plt.tight_layout()
plt.show()

```

```

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1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 20ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 25ms/step
1/1 [=====] - 0s 27ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 23ms/step

```

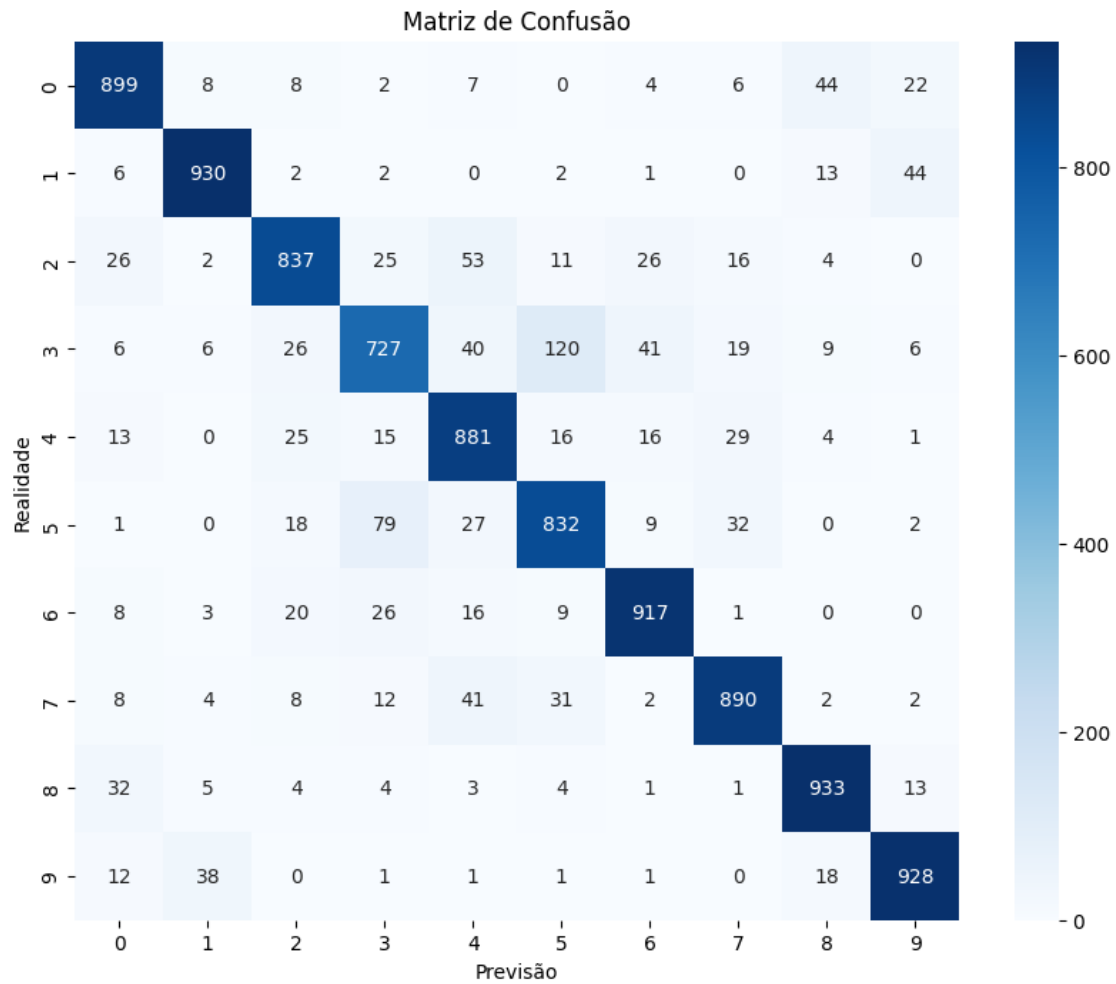
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 26ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 26ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 20ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 35ms/step
1/1 [=====] - 0s 28ms/step
1/1 [=====] - 0s 30ms/step
1/1 [=====] - 0s 35ms/step
1/1 [=====] - 0s 29ms/step
1/1 [=====] - 0s 34ms/step
1/1 [=====] - 0s 30ms/step
1/1 [=====] - 0s 29ms/step
1/1 [=====] - 0s 41ms/step
1/1 [=====] - 0s 32ms/step
1/1 [=====] - 0s 34ms/step
1/1 [=====] - 0s 28ms/step
1/1 [=====] - 0s 30ms/step
1/1 [=====] - 0s 31ms/step
1/1 [=====] - 0s 29ms/step
1/1 [=====] - 0s 34ms/step
1/1 [=====] - 0s 34ms/step
1/1 [=====] - 0s 35ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 28ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 28ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 21ms/step

```

```

1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 25ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 25ms/step
1/1 [=====] - 0s 25ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 38ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 20ms/step
1/1 [=====] - 0s 20ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 31ms/step
1/1 [=====] - 0s 25ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 150ms/step

```



	precision	recall	f1-score	support
0	0.89	0.90	0.89	1000
1	0.93	0.93	0.93	1000
2	0.88	0.84	0.86	1000
3	0.81	0.73	0.77	1000
4	0.82	0.88	0.85	1000
5	0.81	0.83	0.82	1000
6	0.90	0.92	0.91	1000
7	0.90	0.89	0.89	1000
8	0.91	0.93	0.92	1000
9	0.91	0.93	0.92	1000
accuracy			0.88	10000
macro avg	0.88	0.88	0.88	10000
weighted avg	0.88	0.88	0.88	10000

