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import tensorflow as tf
from tensorflow.keras.layers import Dense, Flatten, Embedding, LSTM
from tensorflow.keras.models import Sequential
from tensorflow.keras.preprocessing.text import Tokenizer
from tensorflow.keras.preprocessing.sequence import pad sequences
from tensorflow.keras.datasets import mnist
import numpy as np
import matplotlib.pyplot as plt
(x_train, y_train), (x_test, y_test) = mnist.load_data()
x train = x train / 255.0
x test = x test / 255.0
texts = ["This is a digit" for _ in range(len(x_train))]
tokenizer = Tokenizer(num_words=1000)
tokenizer.fit_on_texts(texts)
sequences = tokenizer.texts to sequences(texts)
padded_sequences = pad_sequences(sequences, maxlen=10)
def build_model():
  model = Sequential([
    Embedding(input_dim=1000, output_dim=64, input_length=10),
    LSTM(128),
    Dense(256, activation='relu'),
    Dense(784, activation='sigmoid'),
    tf.keras.layers.Reshape((28, 28))
  ])
  model.compile(optimizer='adam', loss='binary_crossentropy')
  return model
model = build model()
model.summary()
model.fit(padded sequences, x train, epochs=5, batch size=32)
new text = ["This is a digit"]
new_sequence = tokenizer.texts_to_sequences(new_text)
new padded sequence = pad sequences(new sequence, maxlen=10)
generated image = model.predict(new padded sequence)[0]
plt.imshow(generated image, cmap='gray')
plt.axis('off')
plt.title('Generated Image')
plt.show()
```