```
import numpy as np
import tensorflow as tf
from tensorflow.keras.preprocessing.text import Tokenizer
from tensorflow.keras.preprocessing.sequence import pad sequences
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Embedding, LSTM, Dense,
Bidirectional, Dropout
from tensorflow.keras.callbacks import EarlyStopping
from sklearn.model selection import train test split
# Define the dataset
data = open('/kaggle/input/poem-generation/poem.txt',
encoding="utf8").read()
# Tokenization and Padding for Poetry Generation
tokenizer = Tokenizer()
tokenizer.fit on texts([data])
total words = len(tokenizer.word index) + 1
input sequences = []
for line in data.split('\n'):
    token list = tokenizer.texts to sequences([line])[0]
    for i in range(1, len(token_list)):
        n gram sequence = token list[:i+1]
        input sequences.append(n gram sequence)
max sequence len = \max([len(x) for x in input sequences])
input sequences = np.array(pad sequences(input sequences,
maxlen=max sequence len, padding='pre'))
X, y = input sequences[:,:-1], input sequences[:,-1]
y = tf.keras.utils.to categorical(y, num classes=total words)
# Model Architecture for Poetry Generation
poetry model = Sequential()
poetry model.add(Embedding(total words, 100,
input length=max sequence len-1))
poetry model.add(Bidirectional(LSTM(150)))
poetry model.add(Dropout(0.2))
poetry model.add(Dense(total words, activation='softmax'))
poetry model.compile(loss='categorical crossentropy',
optimizer='adam', metrics=['accuracy'])
# Training for Poetry Generation
poetry model.fit(X, y, epochs=100, verbose=1)
# Example of Poetry Generation
def generate_poem(seed_text, next_words, max_sequence_len):
    for in range(next words):
        token list = tokenizer.texts to sequences([seed text])[0]
```

```
token list = pad_sequences([token_list],
maxlen=max sequence len-1, padding='pre')
      predicted = np.argmax(poetry model.predict(token list), axis=-
1)
      output word = ""
      for word, index in tokenizer.word index.items():
         if index == predicted:
            output word = word
            break
      seed text += " " + output word
   return seed text
seed text = "And"
generated poem = generate poem(seed text, 10, max sequence len)
print("Generated Poem:", generated poem)
Epoch 1/100
510/510 [============ ] - 28s 47ms/step - loss:
6.9182 - accuracy: 0.0630
Epoch 2/100
510/510 [============ ] - 24s 47ms/step - loss:
6.4735 - accuracy: 0.0740
Epoch 3/100
510/510 [============ ] - 24s 46ms/step - loss:
6.2215 - accuracy: 0.0833
Epoch 4/100
510/510 [============ ] - 24s 47ms/step - loss:
5.9607 - accuracy: 0.0961
Epoch 5/100
510/510 [============ ] - 23s 46ms/step - loss:
5.6746 - accuracy: 0.1080
Epoch 6/100
510/510 [============ ] - 23s 46ms/step - loss:
5.3604 - accuracy: 0.1215
Epoch 7/100
510/510 [============ ] - 27s 53ms/step - loss:
5.0384 - accuracy: 0.1365
Epoch 8/100
4.7001 - accuracy: 0.1567
Epoch 9/100
4.3543 - accuracy: 0.1866
Epoch 10/100
4.0165 - accuracy: 0.2227
Epoch 11/100
3.6769 - accuracy: 0.2702
Epoch 12/100
```

```
3.3558 - accuracy: 0.3225
Epoch 13/100
510/510 [============ ] - 24s 48ms/step - loss:
3.0648 - accuracy: 0.3731
Epoch 14/100
510/510 [============ ] - 24s 46ms/step - loss:
2.7846 - accuracy: 0.4191
Epoch 15/100
510/510 [============ ] - 24s 47ms/step - loss:
2.5524 - accuracy: 0.4647
Epoch 16/100
510/510 [============ ] - 24s 47ms/step - loss:
2.3408 - accuracy: 0.5009
Epoch 17/100
510/510 [============ ] - 24s 47ms/step - loss:
2.1495 - accuracy: 0.5413
Epoch 18/100
1.9862 - accuracy: 0.5770
Epoch 19/100
510/510 [============ ] - 24s 47ms/step - loss:
1.8364 - accuracy: 0.6055
Epoch 20/100
510/510 [============ ] - 24s 47ms/step - loss:
1.6946 - accuracy: 0.6325
Epoch 21/100
510/510 [============ ] - 24s 46ms/step - loss:
1.5809 - accuracy: 0.6595
Epoch 22/100
510/510 [============ ] - 23s 46ms/step - loss:
1.4811 - accuracy: 0.6749
Epoch 23/100
510/510 [============ ] - 24s 47ms/step - loss:
1.3985 - accuracy: 0.6919
Epoch 24/100
1.3146 - accuracy: 0.7114
Epoch 25/100
1.2316 - accuracy: 0.7280
Epoch 26/100
510/510 [============ ] - 23s 45ms/step - loss:
1.1711 - accuracy: 0.7391
Epoch 27/100
510/510 [============ ] - 24s 46ms/step - loss:
1.1001 - accuracy: 0.7543
Epoch 28/100
```

```
1.0602 - accuracy: 0.7656
Epoch 29/100
510/510 [============ ] - 24s 46ms/step - loss:
1.0109 - accuracy: 0.7730
Epoch 30/100
510/510 [============ ] - 23s 45ms/step - loss:
0.9737 - accuracy: 0.7800
Epoch 31/100
0.9372 - accuracy: 0.7868
Epoch 32/100
510/510 [=========== ] - 24s 46ms/step - loss:
0.8989 - accuracy: 0.7965
Epoch 33/100
0.8805 - accuracy: 0.7975
Epoch 34/100
510/510 [============ ] - 24s 47ms/step - loss:
0.8414 - accuracy: 0.8061
Epoch 35/100
0.8264 - accuracy: 0.8104
Epoch 36/100
0.8046 - accuracy: 0.8171
Epoch 37/100
0.7918 - accuracy: 0.8154
Epoch 38/100
0.7757 - accuracy: 0.8210
Epoch 39/100
0.7636 - accuracy: 0.8210
Epoch 40/100
0.7611 - accuracy: 0.8194
Epoch 41/100
0.7388 - accuracy: 0.8250
Epoch 42/100
510/510 [============ ] - 26s 50ms/step - loss:
0.7302 - accuracy: 0.8274
Epoch 43/100
0.7151 - accuracy: 0.8310
Epoch 44/100
0.7038 - accuracy: 0.8308
```

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Epoch 45/100
0.7005 - accuracy: 0.8311
Epoch 46/100
510/510 [============ ] - 24s 48ms/step - loss:
0.6950 - accuracy: 0.8321
Epoch 47/100
0.6816 - accuracy: 0.8328
Epoch 48/100
510/510 [============ ] - 24s 46ms/step - loss:
0.6732 - accuracy: 0.8353
Epoch 49/100
0.6799 - accuracy: 0.8340
Epoch 50/100
0.6703 - accuracy: 0.8370
Epoch 51/100
0.6696 - accuracy: 0.8365
Epoch 52/100
510/510 [=========== ] - 23s 46ms/step - loss:
0.6622 - accuracy: 0.8356
Epoch 53/100
0.6534 - accuracy: 0.8400
Epoch 54/100
510/510 [============ ] - 23s 45ms/step - loss:
0.6504 - accuracy: 0.8389
Epoch 55/100
0.6465 - accuracy: 0.8382
Epoch 56/100
0.6482 - accuracy: 0.8378
Epoch 57/100
0.6464 - accuracy: 0.8367
Epoch 58/100
0.6321 - accuracy: 0.8418
Epoch 59/100
510/510 [============ ] - 23s 46ms/step - loss:
0.6337 - accuracy: 0.8421
Epoch 60/100
0.6316 - accuracy: 0.8418
Epoch 61/100
```

```
0.6210 - accuracy: 0.8414
Epoch 62/100
510/510 [============ ] - 24s 47ms/step - loss:
0.6209 - accuracy: 0.8432
Epoch 63/100
510/510 [============ ] - 24s 47ms/step - loss:
0.6307 - accuracy: 0.8416
Epoch 64/100
510/510 [============ ] - 23s 46ms/step - loss:
0.6204 - accuracy: 0.8435
Epoch 65/100
0.6237 - accuracy: 0.8417
Epoch 66/100
510/510 [============ ] - 24s 46ms/step - loss:
0.6221 - accuracy: 0.8424
Epoch 67/100
0.6147 - accuracy: 0.8415
Epoch 68/100
510/510 [============ ] - 23s 46ms/step - loss:
0.6149 - accuracy: 0.8421
Epoch 69/100
0.6167 - accuracy: 0.8419
Epoch 70/100
510/510 [============ ] - 23s 46ms/step - loss:
0.6090 - accuracy: 0.8442
Epoch 71/100
510/510 [============ ] - 23s 45ms/step - loss:
0.5989 - accuracy: 0.8467
Epoch 72/100
510/510 [============ ] - 24s 47ms/step - loss:
0.6034 - accuracy: 0.8445
Epoch 73/100
510/510 [============ ] - 28s 55ms/step - loss:
0.6041 - accuracy: 0.8448
Epoch 74/100
0.6066 - accuracy: 0.8432
Epoch 75/100
510/510 [============ ] - 26s 51ms/step - loss:
0.5997 - accuracy: 0.8426
Epoch 76/100
510/510 [============ ] - 26s 52ms/step - loss:
0.5939 - accuracy: 0.8440
Epoch 77/100
510/510 [============ ] - 26s 51ms/step - loss:
```

```
0.5939 - accuracy: 0.8457
Epoch 78/100
510/510 [============ ] - 25s 48ms/step - loss:
0.5913 - accuracy: 0.8455
Epoch 79/100
0.5996 - accuracy: 0.8430
Epoch 80/100
0.5898 - accuracy: 0.8449
Epoch 81/100
510/510 [=========== ] - 24s 47ms/step - loss:
0.5932 - accuracy: 0.8450
Epoch 82/100
510/510 [============ ] - 23s 46ms/step - loss:
0.5943 - accuracy: 0.8439
Epoch 83/100
510/510 [============ ] - 24s 47ms/step - loss:
0.5861 - accuracy: 0.8452
Epoch 84/100
0.5872 - accuracy: 0.8469
Epoch 85/100
0.5836 - accuracy: 0.8440
Epoch 86/100
510/510 [============ ] - 23s 46ms/step - loss:
0.5880 - accuracy: 0.8446
Epoch 87/100
510/510 [============ ] - 23s 46ms/step - loss:
0.5810 - accuracy: 0.8466
Epoch 88/100
0.5814 - accuracy: 0.8477
Epoch 89/100
0.5829 - accuracy: 0.8448
Epoch 90/100
0.5831 - accuracy: 0.8448
Epoch 91/100
0.5788 - accuracy: 0.8474
Epoch 92/100
0.5816 - accuracy: 0.8467
Epoch 93/100
0.5807 - accuracy: 0.8456
```

```
Epoch 94/100
0.5746 - accuracy: 0.8470
Epoch 95/100
510/510 [=========== ] - 23s 46ms/step - loss:
0.5713 - accuracy: 0.8465
Epoch 96/100
0.5747 - accuracy: 0.8467
Epoch 97/100
510/510 [============ ] - 23s 46ms/step - loss:
0.5778 - accuracy: 0.8447
Epoch 98/100
0.5734 - accuracy: 0.8451
Epoch 99/100
0.5729 - accuracy: 0.8473
Epoch 100/100
0.5767 - accuracy: 0.8459
1/1 [=======] - 1s 809ms/step
1/1 [======] - 0s 26ms/step
1/1 [======] - 0s 24ms/step
1/1 [======] - 0s 24ms/step
1/1 [======] - 0s 25ms/step
1/1 [======] - 0s 26ms/step
1/1 [======] - Os 24ms/step
1/1 [=======] - 0s 26ms/step
1/1 [======= ] - 0s 25ms/step
Generated Poem: And the world it can see so now and i were
import numpy as np
import tensorflow as tf
from tensorflow.keras.preprocessing.text import Tokenizer
from tensorflow.keras.preprocessing.sequence import pad sequences
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Embedding, LSTM, Dense,
Bidirectional, Dropout
from tensorflow.keras.callbacks import EarlyStopping
from sklearn.model selection import train test split
import ipywidgets as widgets
from IPython.display import display
# Define the dataset
data = open('/kaggle/input/poem-generation/poem.txt',
encoding="utf8").read()
# Tokenization and Padding for Poetry Generation
```

```
tokenizer = Tokenizer()
tokenizer.fit on texts([data])
total words = len(tokenizer.word index) + 1
input sequences = []
for line in data.split('\n'):
    token_list = tokenizer.texts_to_sequences([line])[0]
    for i in range(1, len(token list)):
        n gram sequence = token_list[:i+1]
        input sequences.append(n gram sequence)
max sequence len = max([len(x) for x in input sequences])
input_sequences = np.array(pad_sequences(input_sequences,
maxlen=max sequence len, padding='pre'))
X, y = input sequences[:,:-1], input_sequences[:,-1]
y = tf.keras.utils.to categorical(y, num classes=total words)
# Model Architecture for Poetry Generation
poetry model = Sequential()
poetry model.add(Embedding(total words, 100,
input_length=max_sequence_len-1))
poetry model.add(Bidirectional(LSTM(150)))
poetry model.add(Dropout(0.2))
poetry model.add(Dense(total words, activation='softmax'))
poetry model.compile(loss='categorical crossentropy',
optimizer='adam', metrics=['accuracy'])
# Training for Poetry Generation
poetry model.fit(X, y, epochs=100, verbose=1)
# Function to generate poem
def generate poem(seed text, next words, max sequence len):
    for _ in range(next_words):
        token_list = tokenizer.texts_to_sequences([seed_text])[0]
        token list = pad sequences([token list],
maxlen=max sequence len-1, padding='pre')
        predicted = np.argmax(poetry model.predict(token list), axis=-
1)
        output word = ""
        for word, index in tokenizer.word index.items():
            if index == predicted:
                output word = word
                break
        seed text += " " + output_word
    return seed text
# User input widget for poem generation
poem input = widgets.Text(placeholder='Enter your seed text for poem
generation')
```

```
display(poem input)
# Button to trigger poem generation
poem button = widgets.Button(description='Generate Poem')
display(poem button)
# Output widget for displaying generated poem
poem output = widgets.Output()
display(poem output)
def generate_poem_output(b):
    with poem output:
        poem output.clear output()
        seed text = poem input.value.strip()
        if seed text:
            generated poem = generate poem(seed text, 10,
max sequence len)
            print("Generated Poem:")
            print(generated poem)
        else:
            print("Please enter a seed text.")
poem button.on click(generate poem output)
# Function to perform sentiment analysis
def predict sentiment(text):
    # Perform sentiment analysis here (replace with your sentiment
analysis model)
    # For demonstration, returning a random sentiment label
    sentiments = ['positive', 'neutral', 'negative']
    return np.random.choice(sentiments)
# User input widget for sentiment analysis
sentiment input = widgets.Text(placeholder='Enter your text for
sentiment analysis')
display(sentiment input)
# Button to trigger sentiment analysis
sentiment button = widgets.Button(description='Analyze Sentiment')
display(sentiment button)
# Output widget for displaying sentiment analysis result
sentiment output = widgets.Output()
display(sentiment_output)
def analyze sentiment(b):
    with sentiment output:
        sentiment output.clear output()
        input text = sentiment input.value.strip()
        if input text:
```

```
sentiment = predict sentiment(input text)
        print("Sentiment:", sentiment)
     else:
        print("Please enter some text for sentiment analysis.")
sentiment button.on click(analyze sentiment)
Epoch 1/100
6.9309 - accuracy: 0.0622
Epoch 2/100
510/510 [============= ] - 25s 49ms/step - loss:
6.4867 - accuracy: 0.0735
Epoch 3/100
510/510 [============ ] - 24s 46ms/step - loss:
6.2337 - accuracy: 0.0828
Epoch 4/100
510/510 [============ ] - 24s 48ms/step - loss:
5.9488 - accuracy: 0.0982
Epoch 5/100
510/510 [============ ] - 24s 47ms/step - loss:
5.6433 - accuracy: 0.1088
Epoch 6/100
510/510 [============ ] - 24s 47ms/step - loss:
5.3115 - accuracy: 0.1245
Epoch 7/100
510/510 [============= ] - 23s 46ms/step - loss:
4.9807 - accuracy: 0.1435
Epoch 8/100
510/510 [============ ] - 24s 47ms/step - loss:
4.6397 - accuracy: 0.1634
Epoch 9/100
510/510 [============ ] - 24s 46ms/step - loss:
4.2833 - accuracy: 0.1936
Epoch 10/100
510/510 [============ ] - 23s 45ms/step - loss:
3.9416 - accuracy: 0.2340
Epoch 11/100
3.6085 - accuracy: 0.2777
Epoch 12/100
3.2869 - accuracy: 0.3300
Epoch 13/100
2.9928 - accuracy: 0.3796
Epoch 14/100
2.7270 - accuracy: 0.4275
Epoch 15/100
```

```
2.4888 - accuracy: 0.4721
Epoch 16/100
510/510 [============ ] - 24s 47ms/step - loss:
2.2804 - accuracy: 0.5138
Epoch 17/100
510/510 [============ ] - 24s 47ms/step - loss:
2.0955 - accuracy: 0.5509
Epoch 18/100
510/510 [============ ] - 23s 46ms/step - loss:
1.9346 - accuracy: 0.5805
Epoch 19/100
510/510 [============ ] - 23s 46ms/step - loss:
1.7940 - accuracy: 0.6081
Epoch 20/100
510/510 [============ ] - 24s 46ms/step - loss:
1.6685 - accuracy: 0.6326
Epoch 21/100
1.5638 - accuracy: 0.6562
Epoch 22/100
510/510 [============ ] - 24s 46ms/step - loss:
1.4505 - accuracy: 0.6793
Epoch 23/100
510/510 [============ ] - 24s 47ms/step - loss:
1.3673 - accuracy: 0.6948
Epoch 24/100
510/510 [============ ] - 25s 50ms/step - loss:
1.2864 - accuracy: 0.7133
Epoch 25/100
510/510 [============ ] - 29s 56ms/step - loss:
1.2204 - accuracy: 0.7311
Epoch 26/100
510/510 [============ ] - 25s 49ms/step - loss:
1.1560 - accuracy: 0.7431
Epoch 27/100
510/510 [============ ] - 25s 49ms/step - loss:
1.0948 - accuracy: 0.7564
Epoch 28/100
1.0531 - accuracy: 0.7643
Epoch 29/100
510/510 [============ ] - 24s 48ms/step - loss:
1.0175 - accuracy: 0.7712
Epoch 30/100
0.9684 - accuracy: 0.7781
Epoch 31/100
510/510 [============ ] - 24s 47ms/step - loss:
```

```
0.9239 - accuracy: 0.7902
Epoch 32/100
510/510 [============ ] - 24s 47ms/step - loss:
0.9026 - accuracy: 0.7952
Epoch 33/100
510/510 [============ ] - 24s 47ms/step - loss:
0.8750 - accuracy: 0.7975
Epoch 34/100
0.8565 - accuracy: 0.8036
Epoch 35/100
510/510 [============ ] - 24s 46ms/step - loss:
0.8331 - accuracy: 0.8084
Epoch 36/100
0.8096 - accuracy: 0.8118
Epoch 37/100
510/510 [============ ] - 24s 47ms/step - loss:
0.7904 - accuracy: 0.8141
Epoch 38/100
0.7784 - accuracy: 0.8198
Epoch 39/100
0.7646 - accuracy: 0.8179
Epoch 40/100
0.7481 - accuracy: 0.8219
Epoch 41/100
0.7455 - accuracy: 0.8227
Epoch 42/100
0.7240 - accuracy: 0.8276
Epoch 43/100
0.7170 - accuracy: 0.8278
Epoch 44/100
0.7161 - accuracy: 0.8282
Epoch 45/100
0.7045 - accuracy: 0.8289
Epoch 46/100
0.6876 - accuracy: 0.8345
Epoch 47/100
0.6946 - accuracy: 0.8313
```

```
Epoch 48/100
0.6885 - accuracy: 0.8331
Epoch 49/100
510/510 [============ ] - 23s 45ms/step - loss:
0.6760 - accuracy: 0.8360
Epoch 50/100
0.6714 - accuracy: 0.8383
Epoch 51/100
510/510 [============ ] - 24s 46ms/step - loss:
0.6681 - accuracy: 0.8358
Epoch 52/100
0.6732 - accuracy: 0.8331
Epoch 53/100
0.6605 - accuracy: 0.8366
Epoch 54/100
0.6499 - accuracy: 0.8392
Epoch 55/100
510/510 [============ ] - 24s 46ms/step - loss:
0.6533 - accuracy: 0.8374
Epoch 56/100
0.6444 - accuracy: 0.8392
Epoch 57/100
0.6407 - accuracy: 0.8399
Epoch 58/100
0.6402 - accuracy: 0.8399
Epoch 59/100
0.6423 - accuracy: 0.8375
Epoch 60/100
510/510 [============ ] - 24s 47ms/step - loss:
0.6365 - accuracy: 0.8390
Epoch 61/100
0.6419 - accuracy: 0.8378
Epoch 62/100
510/510 [============ ] - 24s 47ms/step - loss:
0.6287 - accuracy: 0.8410
Epoch 63/100
0.6251 - accuracy: 0.8410
Epoch 64/100
```

```
510/510 [============ ] - 24s 46ms/step - loss:
0.6211 - accuracy: 0.8429
Epoch 65/100
0.6232 - accuracy: 0.8399
Epoch 66/100
510/510 [============ ] - 24s 46ms/step - loss:
0.6205 - accuracy: 0.8417
Epoch 67/100
510/510 [============ ] - 25s 48ms/step - loss:
0.6169 - accuracy: 0.8419
Epoch 68/100
510/510 [============ ] - 27s 52ms/step - loss:
0.6188 - accuracy: 0.8395
Epoch 69/100
510/510 [============ ] - 25s 49ms/step - loss:
0.6097 - accuracy: 0.8429
Epoch 70/100
0.6098 - accuracy: 0.8432
Epoch 71/100
510/510 [============ ] - 25s 49ms/step - loss:
0.6084 - accuracy: 0.8437
Epoch 72/100
0.6063 - accuracy: 0.8440
Epoch 73/100
510/510 [============ ] - 24s 47ms/step - loss:
0.6039 - accuracy: 0.8428
Epoch 74/100
510/510 [============ ] - 24s 48ms/step - loss:
0.5929 - accuracy: 0.8454
Epoch 75/100
510/510 [============ ] - 24s 47ms/step - loss:
0.6037 - accuracy: 0.8424
Epoch 76/100
510/510 [============ ] - 24s 46ms/step - loss:
0.5997 - accuracy: 0.8438
Epoch 77/100
0.6018 - accuracy: 0.8431
Epoch 78/100
510/510 [============ ] - 24s 47ms/step - loss:
0.5963 - accuracy: 0.8440
Epoch 79/100
510/510 [============ ] - 24s 46ms/step - loss:
0.5928 - accuracy: 0.8473
Epoch 80/100
510/510 [============ ] - 24s 48ms/step - loss:
```

```
0.5919 - accuracy: 0.8465
Epoch 81/100
510/510 [============ ] - 24s 47ms/step - loss:
0.5913 - accuracy: 0.8448
Epoch 82/100
0.5881 - accuracy: 0.8464
Epoch 83/100
0.5858 - accuracy: 0.8457
Epoch 84/100
510/510 [=========== ] - 24s 47ms/step - loss:
0.5878 - accuracy: 0.8456
Epoch 85/100
510/510 [============ ] - 23s 46ms/step - loss:
0.5892 - accuracy: 0.8456
Epoch 86/100
510/510 [============ ] - 24s 46ms/step - loss:
0.5854 - accuracy: 0.8472
Epoch 87/100
0.5897 - accuracy: 0.8458
Epoch 88/100
0.5896 - accuracy: 0.8443
Epoch 89/100
510/510 [============ ] - 24s 46ms/step - loss:
0.5822 - accuracy: 0.8467
Epoch 90/100
510/510 [============ ] - 24s 47ms/step - loss:
0.5804 - accuracy: 0.8469
Epoch 91/100
0.5784 - accuracy: 0.8458
Epoch 92/100
0.5787 - accuracy: 0.8472
Epoch 93/100
510/510 [============ ] - 24s 47ms/step - loss:
0.5743 - accuracy: 0.8464
Epoch 94/100
0.5757 - accuracy: 0.8464
Epoch 95/100
0.5789 - accuracy: 0.8462
Epoch 96/100
0.5767 - accuracy: 0.8466
```

```
Epoch 97/100
510/510 [============ ] - 26s 51ms/step - loss:
0.5734 - accuracy: 0.8476
Epoch 98/100
510/510 [============ ] - 25s 49ms/step - loss:
0.5770 - accuracy: 0.8450
Epoch 99/100
0.5704 - accuracy: 0.8477
Epoch 100/100
510/510 [============ ] - 24s 47ms/step - loss:
0.5698 - accuracy: 0.8470
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ion minor":0}
{"model id": "333784d6d2b3492aacb63eef00a324bf", "version major": 2, "vers
ion minor":0}
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