

```

1 C:\Users\J\Desktop\Major\venv\Scripts\python.exe C:\
  Users\J\Desktop\Major\text_informative_LSTM.py
2 Model: "sequential"
3 -----
4 -----
4 Layer (type)                      Output Shape
      Param #
5 =====
5 =====
6 embedding (Embedding)             (None, 27, 128
   )                      256000
7
8 lstm (LSTM)                       (None, 128
   )                      131584
9
10 dense (Dense)                    (None, 2
   )                      258
11
12 =====
12 =====
13 Total params: 387,842
14 Trainable params: 387,842
15 Non-trainable params: 0
16 -----
16 -----
17 None
18 Epoch 1/20
19 341/341 [=====] - 17s 41ms/
   step - loss: 0.4546 - accuracy: 0.7929
20 Epoch 2/20
21 341/341 [=====] - 16s 46ms/
   step - loss: 0.3522 - accuracy: 0.8484
22 Epoch 3/20
23 341/341 [=====] - 14s 42ms/
   step - loss: 0.3207 - accuracy: 0.8636
24 Epoch 4/20
25 341/341 [=====] - 14s 42ms/
   step - loss: 0.2861 - accuracy: 0.8833

```

```
26 Epoch 5/20
27 341/341 [=====] - 15s 43ms/
   step - loss: 0.2523 - accuracy: 0.8937
28 Epoch 6/20
29 341/341 [=====] - 15s 43ms/
   step - loss: 0.2193 - accuracy: 0.9098
30 Epoch 7/20
31 341/341 [=====] - 15s 44ms/
   step - loss: 0.2021 - accuracy: 0.9165
32 Epoch 8/20
33 341/341 [=====] - 15s 44ms/
   step - loss: 0.1745 - accuracy: 0.9282
34 Epoch 9/20
35 341/341 [=====] - 15s 44ms/
   step - loss: 0.1588 - accuracy: 0.9370
36 Epoch 10/20
37 341/341 [=====] - 15s 44ms/
   step - loss: 0.1339 - accuracy: 0.9479
38 Epoch 11/20
39 341/341 [=====] - 15s 44ms/
   step - loss: 0.1187 - accuracy: 0.9552
40 Epoch 12/20
41 341/341 [=====] - 15s 44ms/
   step - loss: 0.0999 - accuracy: 0.9616
42 Epoch 13/20
43 341/341 [=====] - 15s 44ms/
   step - loss: 0.0867 - accuracy: 0.9675
44 Epoch 14/20
45 341/341 [=====] - 15s 45ms/
   step - loss: 0.0815 - accuracy: 0.9705
46 Epoch 15/20
47 341/341 [=====] - 15s 44ms/
   step - loss: 0.0704 - accuracy: 0.9756
48 Epoch 16/20
49 341/341 [=====] - 15s 45ms/
   step - loss: 0.0606 - accuracy: 0.9776
50 Epoch 17/20
51 341/341 [=====] - 15s 45ms/
   step - loss: 0.0541 - accuracy: 0.9818
52 Epoch 18/20
53 341/341 [=====] - 16s 46ms/
```

```
53 step - loss: 0.0500 - accuracy: 0.9828
54 Epoch 19/20
55 341/341 [=====] - 15s 45ms/
   step - loss: 0.0470 - accuracy: 0.9844
56 Epoch 20/20
57 341/341 [=====] - 15s 45ms/
   step - loss: 0.0462 - accuracy: 0.9821
58 86/86 [=====] - 1s 9ms/step
   - loss: 1.0663 - accuracy: 0.8115
59 Test accuracy: 0.811535656452179
60
61 Process finished with exit code 0
62
```