```
1 C:\Users\jiho\PycharmProjectsMyWork\intel_AI_classification_team4\.venv\Scripts\python.exe C
  :\Users\jiho\PycharmProjectsMyWork\intel_AI_classification_team4\modeling.py
2 (17152, 23) (17152, 8)
3 (4289, 23) (4289, 8)
4 2024-01-30 14:24:42.415858: I tensorflow/core/platform/cpu_feature_guard.cc:182] This
  TensorFlow binary is optimized to use available CPU instructions in performance-critical
5 To enable the following instructions: SSE SSE2 SSE3 SSE4.1 SSE4.2 AVX AVX2 FMA, in other
  operations, rebuild TensorFlow with the appropriate compiler flags.
6 Model: "sequential"
7 _____
8 Layer (type) Output Shape
                                        Param #
10 embedding (Embedding) (None, 23, 300)
                                        3765300
11
12
  conv1d (Conv1D)
                      (None, 23, 32)
                                        48032
13
14
  max_pooling1d (MaxPooling1 (None, 23, 32)
15
  D)
16
17
  lstm (LSTM)
                      (None, 23, 128)
                                        82432
18
19
  dropout (Dropout)
                      (None, 23, 128)
20
21
  lstm_1 (LSTM)
                      (None, 23, 64)
                                        49408
22
23
  dropout_1 (Dropout)
                      (None, 23, 64)
24
25
                      (None, 64)
  lstm_2 (LSTM)
                                        33024
26
27
  dropout 2 (Dropout)
                      (None, 64)
28
29
  flatten (Flatten)
                      (None, 64)
30
31
  dense (Dense)
                      (None, 128)
                                        8320
32
33
                      (None, 8)
  dense 1 (Dense)
                                        1032
34
36 Total params: 3987548 (15.21 MB)
37 Trainable params: 3987548 (15.21 MB)
38 Non-trainable params: 0 (0.00 Byte)
39 _____
40 Epoch 1/10
- val loss: 1.4715 - val accuracy: 0.4675
42 Epoch 2/10
- val_loss: 1.2519 - val_accuracy: 0.5463
44 Epoch 3/10
- val_loss: 1.2625 - val_accuracy: 0.5701
46 Epoch 4/10
- val loss: 1.3229 - val accuracy: 0.5586
48 Epoch 5/10
```

```
File - modeling
 49 - val_loss: 1.3884 - val_accuracy: 0.5726
 50 Epoch 6/10
 - val_loss: 1.4239 - val_accuracy: 0.5677
 52 Epoch 7/10
 - val_loss: 1.5753 - val_accuracy: 0.5589
 54 Epoch 8/10
 - val loss: 1.6596 - val accuracy: 0.5535
 56 Epoch 9/10
 - val loss: 1.7425 - val accuracy: 0.5472
 58 Epoch 10/10
 - val_loss: 1.8828 - val_accuracy: 0.5542
60 C:\Users\jiho\PycharmProjectsMyWork\intel AI classification team4\.venv\lib\site-packages\
  keras\src\engine\training.py:3000: 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')`.
61
   saving api.save model(
62
63 Process finished with exit code 0
64
```