## **EXPERIMENT 6**

1746/89/17464789
Training samples: 25000
Testing samples: 25000
Shape of training data: (25000, 200)
Shape of testing data: (25000, 200)

/usr/local/lib/python3.12/dist-packages/keras/src/layers/core/embedding.py:97: UserWarning: Argument `input\_length` is deprecated. Just remove it.

warnings.warn( Model: "sequential"

Layer (type)	Output Shape	Param #
embedding (Embedding)	?	0 (unbuilt)
simple_rnn (SimpleRNN)	?	0 (unbuilt)
dense (Dense)	?	0 (unbuilt)

```
Total params: 0 (0.00 B)
Trainable params: 0 (0.00 B)
Non-trainable params: 0 (0.00 B)
```

-- 27s 81ms/step - accuracy: 0.6162 - loss: 0.6328 - val\_accuracy: 0.6454 - val\_loss: 0.6128 Epoch 2/3

313/313 — Epoch 3/3 313/313 — — 41s 83ms/step - accuracy: 0.8253 - loss: 0.4027 - val\_accuracy: 0.8318 - val\_loss: 0.3985 — 24s 78ms/step - accuracy: 0.9549 - loss: 0.1356 - val\_accuracy: 0.7704 - val\_loss: 0.5861

precision recall f1-score support

Negative Positive 0.80 0.72 0.76 12500 25000 accuracy macro avg weighted avg 0.77 25000

Confusion Matrix: [[10244 2256] [ 3504 8996]]

Accuracy

27s 81ms/step - accuracy: 0.6162 - loss: 0.6328 - val\_accuracy: 0.6454 - val\_loss: 0.6128 Epoch 2/3 313/313 -41s 83ms/step - accuracy: 0.8253 - loss: 0.4027 - val accuracy: 0.8318 - val loss: 0.3985 Epoch 3/3 313/313 — 24s 78ms/step - accuracy: 0.9549 - loss: 0.1356 - val\_accuracy: 0.7704 - val\_loss: 0.5861 782/782 - 9s 12ms/step

Classification Report: precision recall f1-score support Negative Positive accuracy 0.77 25000 macro avg weighted avg 0.77 0.77 25000 25000

Confusion Matrix: [[10244 2256] [ 3504 8996]]



