

```
!pip install -q tfllite-model-maker
```

[illegible]

```
Building wheel for fire (setup.py) ... done
```

```
Building wheel for py-cpuinfo (setup.py) ... done
```

```
import numpy as np
import os
```

```
from tflite_model_maker import model_spec
from tflite_model_maker import text_classifier
from tflite_model_maker.config import ExportFormat
from tflite_model_maker.text_classifier import AveragewordVecSpec
from tflite_model_maker.text_classifier import DataLoader
```

```
import tensorflow as tf
assert tf.__version__.startswith('2')
tf.get_logger().setLevel('ERROR')
```

```
spec = model_spec.get('mobilebert_classifier')
```

```
data = DataLoader.from_csv(  
    filename='/content/lmblog_comments1.csv',  
    text_column='commenttext',  
    label_column='spam',  
    model_spec=spec,  
    delimiter=',',  
    shuffle=True,  
    is_training=True)
```

```
train data, test data = data.split(0.8)
```

```
model = text_classifier.create(train_data, model_spec=spec, epochs=3,
                               validation_data=test_data)
```

```
16/16 [=====] - 436s 24s/step - loss: 0.6541 - test accurac
```

```
Epoch 2/2
16/16 [=====] - 358s 22s/step - loss: 0.1882 - test_accurac
Epoch 3/3
16/16 [=====] - 366s 23s/step - loss: 0.1234 - test_accurac
```



```
model.summary()
```

```
Model: "model"
```

Layer (type)	Output Shape	Param #	Connected to
input_word_ids (InputLayer)	[(None, 128)]	0	[]
input_mask (InputLayer)	[(None, 128)]	0	[]
input_type_ids (InputLayer)	[(None, 128)]	0	[]
hub_keras_layer_v1v2 (HubKeras LayerV1V2)	(None, 512)	24581888	['input_word_ids[0] 'input_mask[0][0]' 'input_type_ids[0]
dropout (Dropout)	(None, 512)	0	['hub_keras_layer_v
output (Dense)	(None, 2)	1026	['dropout[0][0]']

```
=====
Total params: 24,582,914
Trainable params: 24,582,914
Non-trainable params: 0
```



```
model.evaluate(test_data)
```

```
7/7 [=====] - 24s 3s/step - loss: 0.0992 - test_accuracy: 0
[0.09924312680959702, 0.9549999833106995]
```



```
model.export(export_dir='mobilebert_classifier')
```

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✓ 41s completed at 1:02 PM

