Bài 1: Thực hiện xây dựng mô hình dự đoán cho bài toán phân tích cảm xúc (sentiment-based) dựa trên bộ dữ liệu UIT-VSFC.

Link tải Pre-trained embedding :
https://github.com/vietnlp/etnlp/blob/master/src/data/embedding_dicts/C2V.vec

Trước khi sử dụng Pre-trained Embedding:

```
Model: "functional_2"
```

Layer (type)	Output Shape	Param #
input_layer_2 (InputLayer)	(None, 100)	0
embedding_2 (Embedding)	(None, 100, 300)	1,119,300
flatten_2 (Flatten)	(None, 30000)	0
dense_2 (Dense)	(None, 3)	90,003

```
Total params: 1,209,303 (4.61 MB)
```

```
Trainable params: 1,209,303 (4.61 MB)
```

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

```
Model: "functional_2"
```

Layer (type)	Output Shape	Param #
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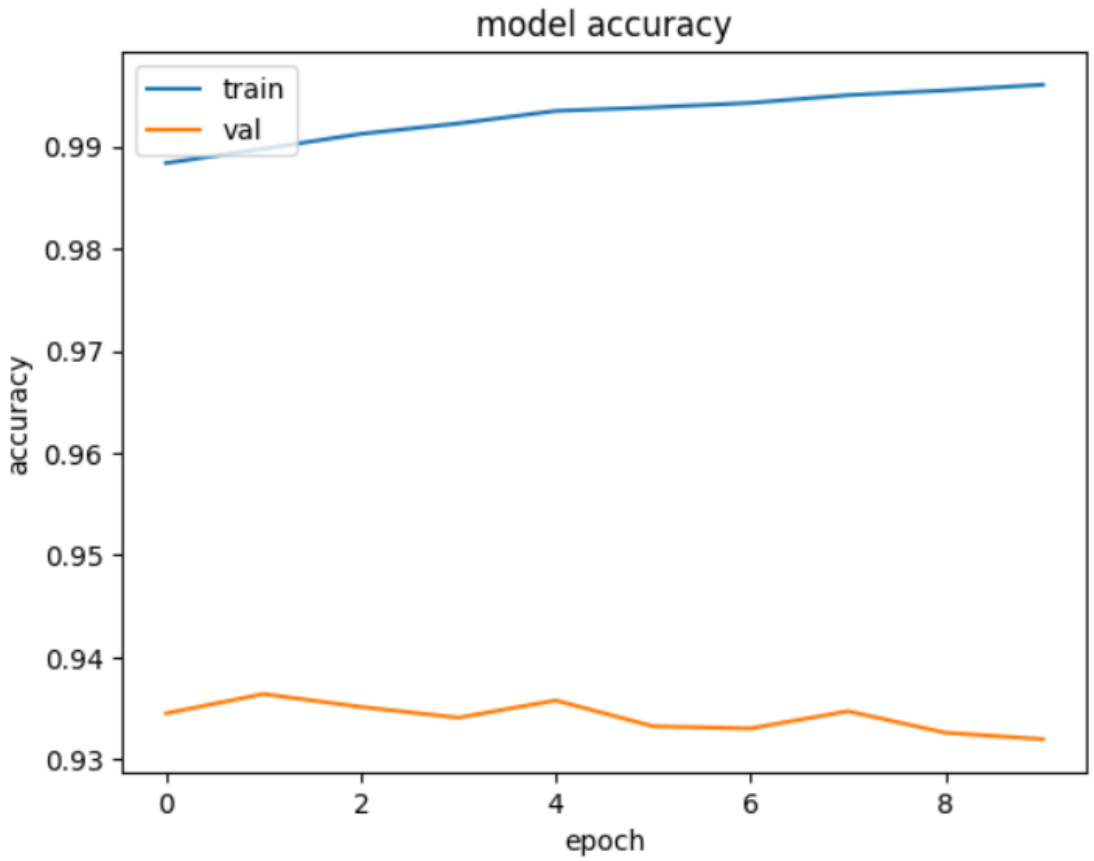
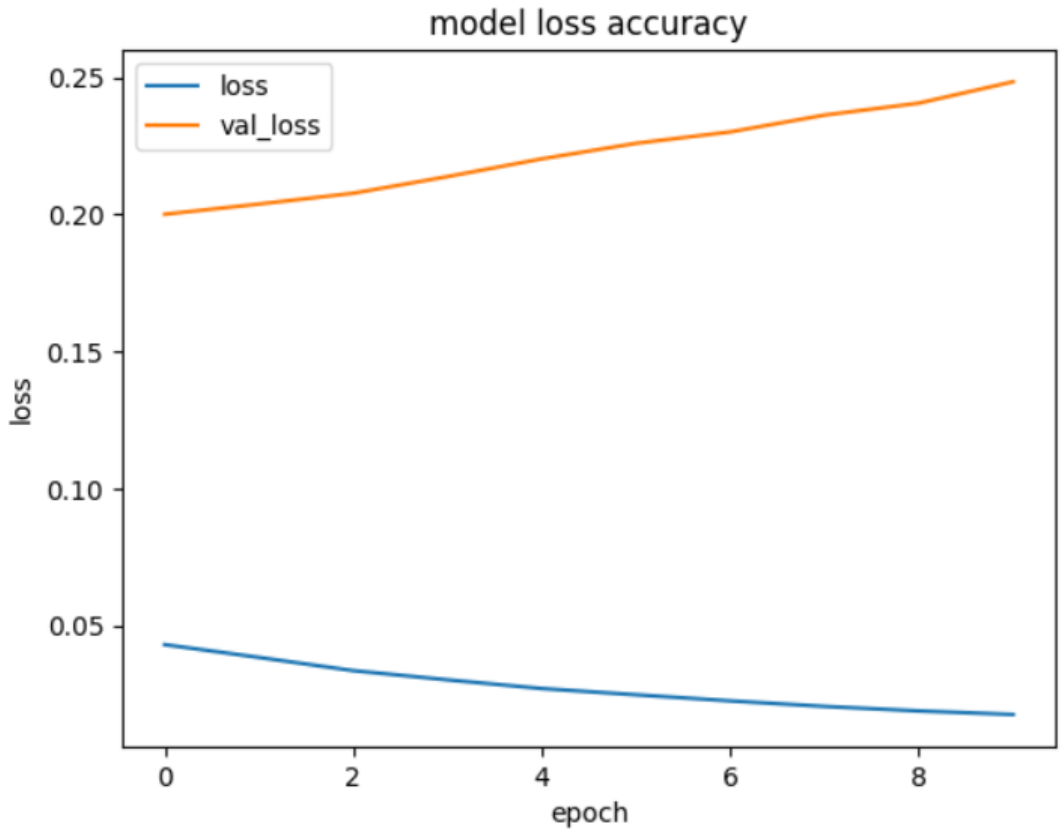
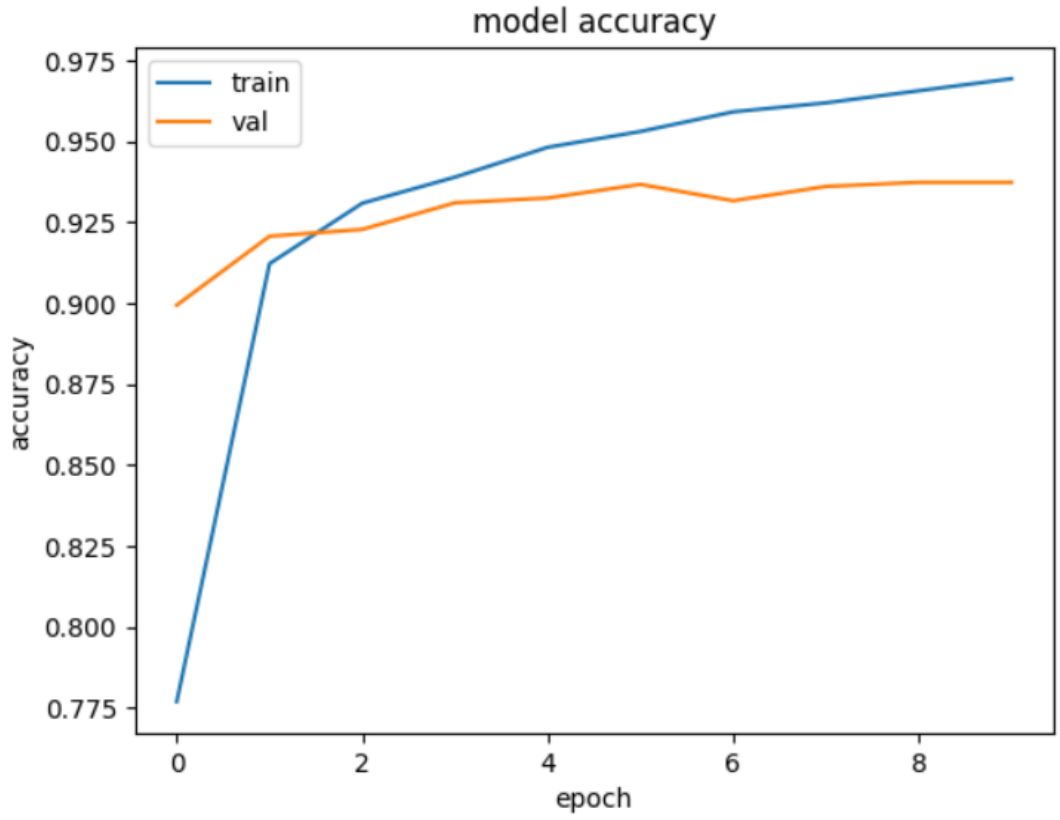
dense_2 (Dense)	(None, 3)	90,003

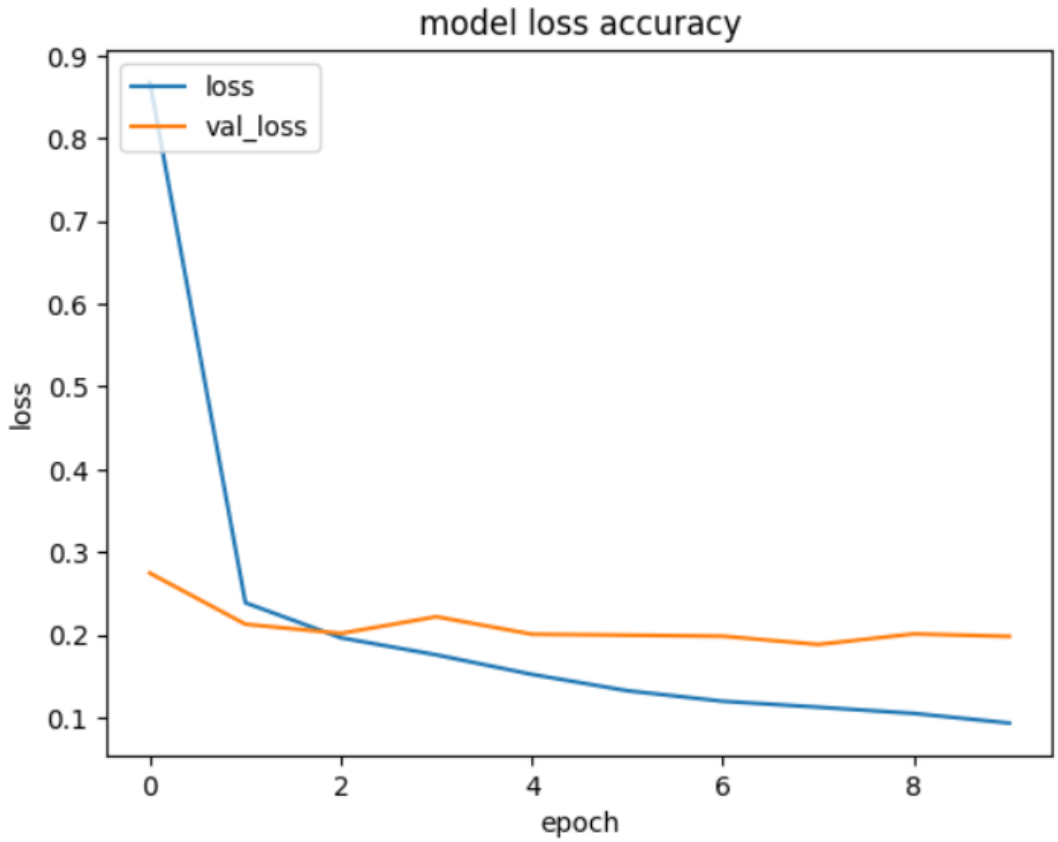
```
Total params: 1,209,303 (4.61 MB)

Trainable params: 1,209,303 (4.61 MB)

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





Sau khi sử dụng Pre-Trained C2V.vec

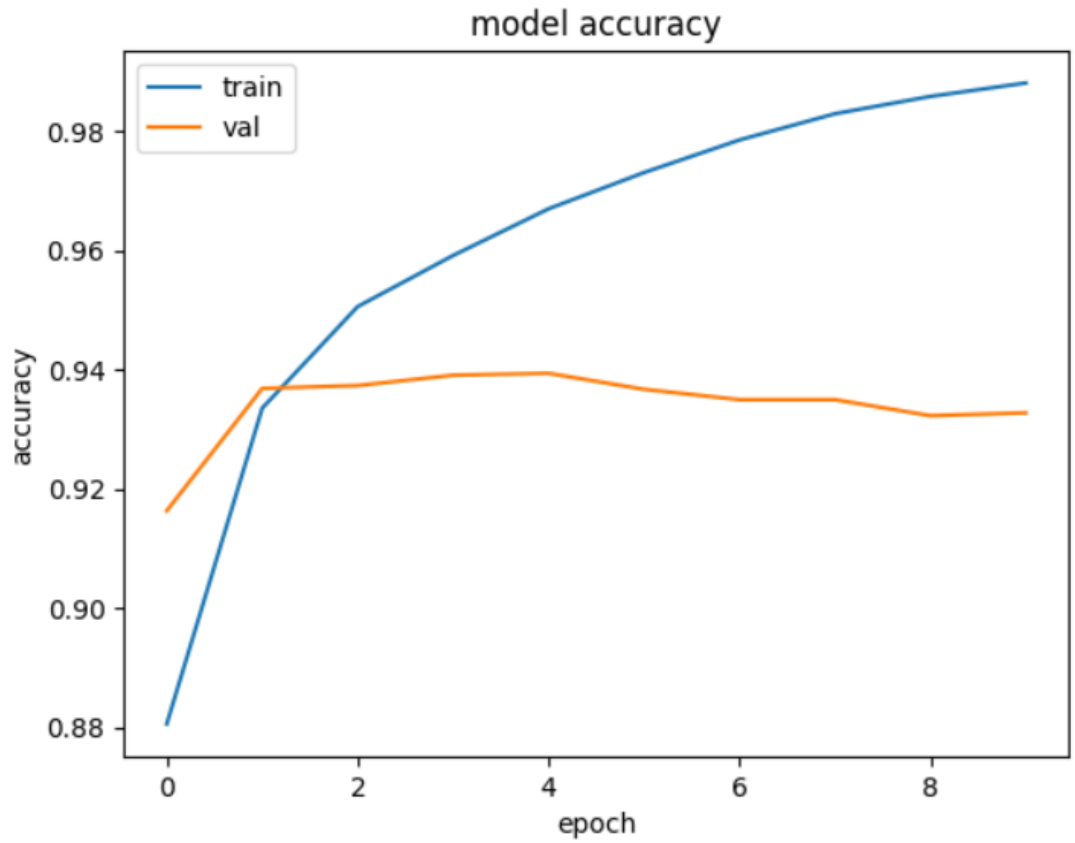


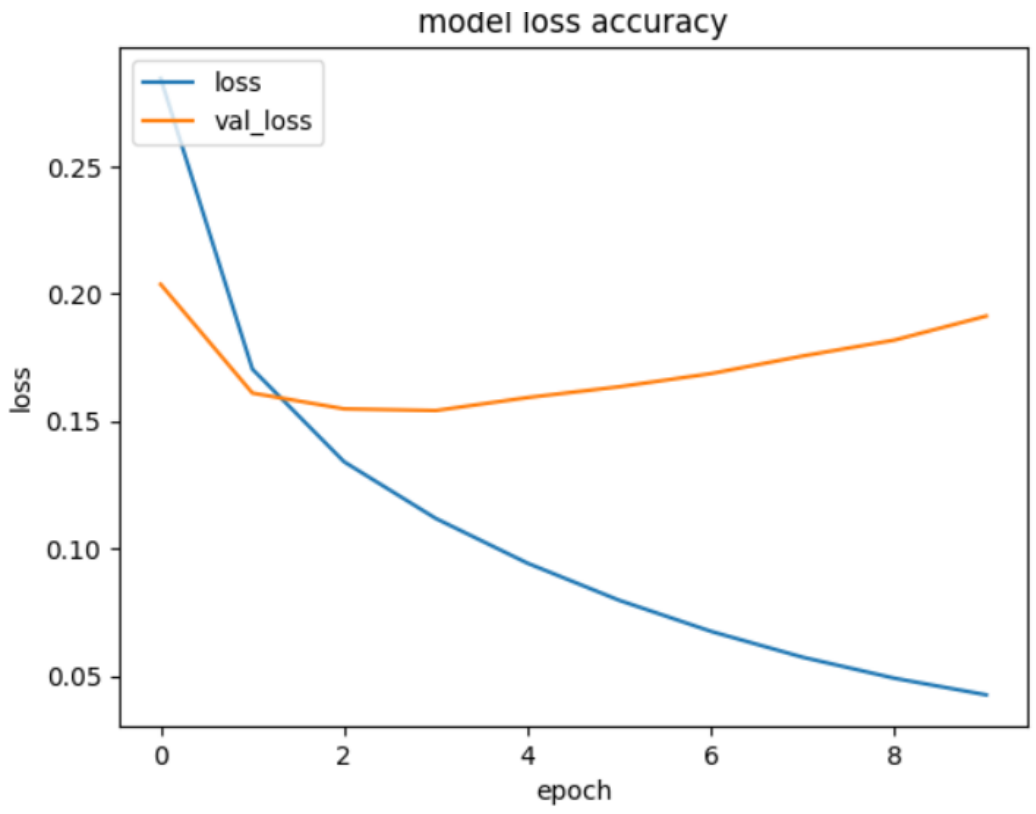


Bài 2: Thực hiện xây dựng mô hình dự đoán cho bài toán phân loại chủ đề (topic-based) dựa trên bộ dữ liệu UIT-VSFC.

(Cùng sử dụng C2V.vec)

Trước khi sử dụng Pre-trained embedding


model accuracy
train
val
0.98
0.96
0.94
0.92
0.90
0.88
accuracy
0
2
4
6
8
epoch


model loss accuracy
loss
val_loss
0.25
0.20
0.15
0.10
0.05
loss
0
2
4
6
8
epoch

Sau khi sử dụng Pre-trained embedding