

- Describe what problems you encountered and how did you solve them when implementing the basic and advanced functions. (2%)  
寫 basic classification 時訓練的效率一直很差，後來詢問同學才知道可能是 min max scaling 的部分有問題，應該要針對每筆資料各自 normalize。
- Briefly describe the structure of your binary and multi-class classifiers. (2%)

```
• # GRADED CODE: binary classification
• layers_dims = [30,40 ,40, 1]
• activation_fn = ["relu","relu","sigmoid"]
• learning_rate = 0.5
• num_iterations = 30000
• print_cost = True
• classes = 2
```

multi-class:

```
layers_dims = [784, 400, 150 , 50 ,10]
activation_fn = ["relu","relu","relu","softmax"]
learning_rate = 0.5
num_iterations = 100
batch_size = 64
print_cost = True
classes = 10
```

- Describe effort you put to improve your model (e.g., hyperparameter finetuning). (1%)

我測試了很多次才找到比較好的 model，並在 training 前有將資料 shuffle。