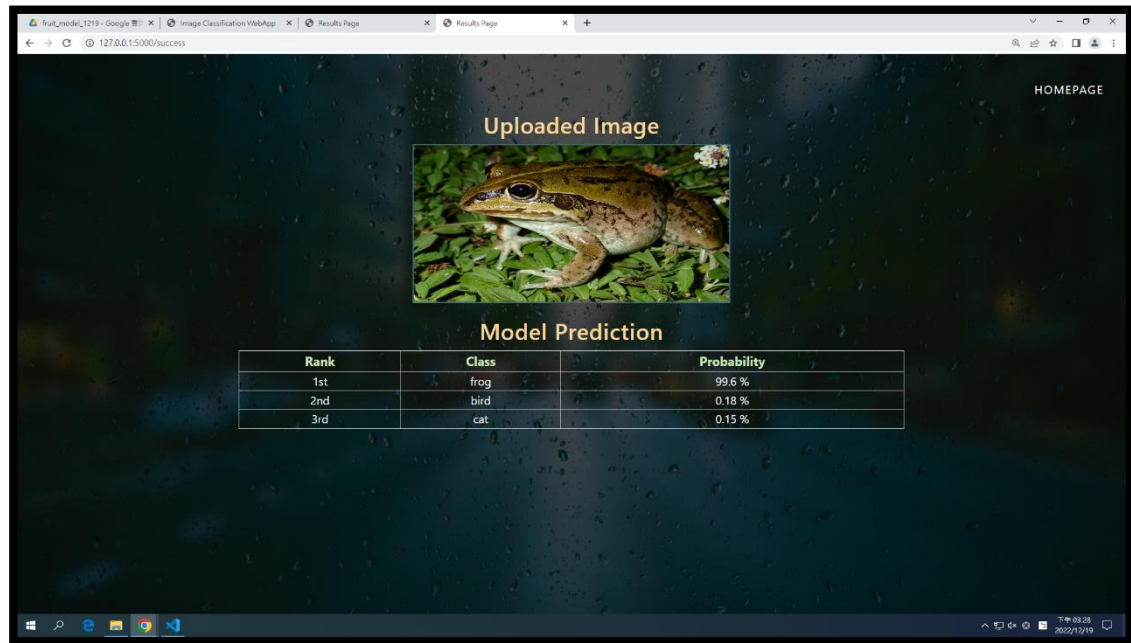


2022-12-19 Assignment

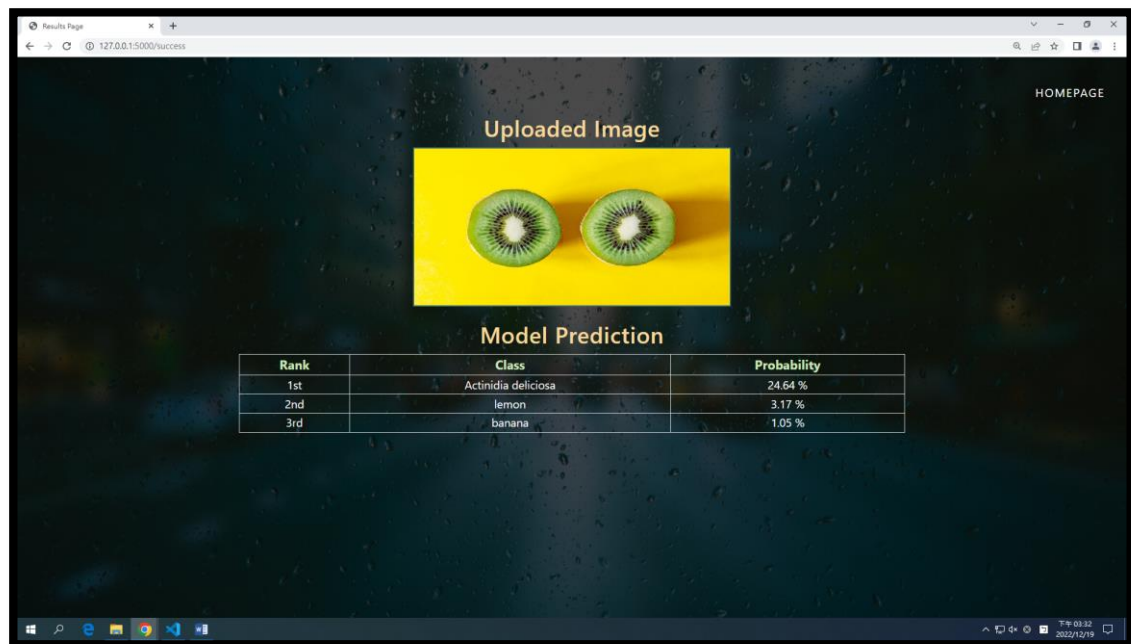
4080E036 吳承翰

Github : <https://reurl.cc/pZXbGl>

1. 原範例測試結果



2. 更換成自己的模型 (fruit_model)



使用自己資料訓練時需要加上紅框部分

```
num_classes = len(class_names)

model = tf.keras.Sequential([
    feature_extractor_layer,
    tf.keras.layers.Dense(num_classes, activation='softmax')
])

model.summary()
```

最後儲存時名稱不需要副檔名

```
[ ] #-----儲存模型到雲端資料夾-----
import os
DATADIR = os.path.join(MOUNTPOINT, "MyDrive/TF_Models") #MyDrive_我的雲端, TF_Models_資料夾
saved_model_path = os.path.join(DATADIR, "fruit_model_1219") #cats_and_dogs.h5_模型名稱
model.save(saved_model_path)
```

Python app.py 模型改為儲存模型的名稱

```
15
16 model_path = os.path.join(BASE_DIR, 'fruit_model_1219')
17 model = tf.keras.models.load_model(model_path)
18
```

Class 改為與模型資料一樣的類別

```
24 return '.' in filename and \
25     filename.rsplit('.', 1)[1] in ALLOWED_EXT
26
27 #classes = ['airplane', 'automobile', 'bird', 'cat', 'deer', 'dog', 'frog', 'horse', 'ship', 'truck']
28
29 classes = ['Actinidia deliciosa', 'banana', 'lemon', 'orange', 'strawberry']
30
31 '''classes = ['Cherry', 'Coffee-plant', 'Cucumber', 'Fox_nut(Makhana)', 'Lemon',
32 'Olive-tree', 'Pearl_millet(bajra)', 'Tobacco-plant', 'almond', 'banana',
33 'cardamom', 'chilli', 'clove', 'coconut', 'cotton', 'gram', 'jowar', 'jute',
34 'maize', 'mustard-oil', 'papaya', 'pineapple', 'rice', 'soyabean', 'sugarcane',
35 'sunflower', 'tea', 'tomato', 'vigna-radiati(Mung)', 'wheat']'''
```

下頁結果

Result