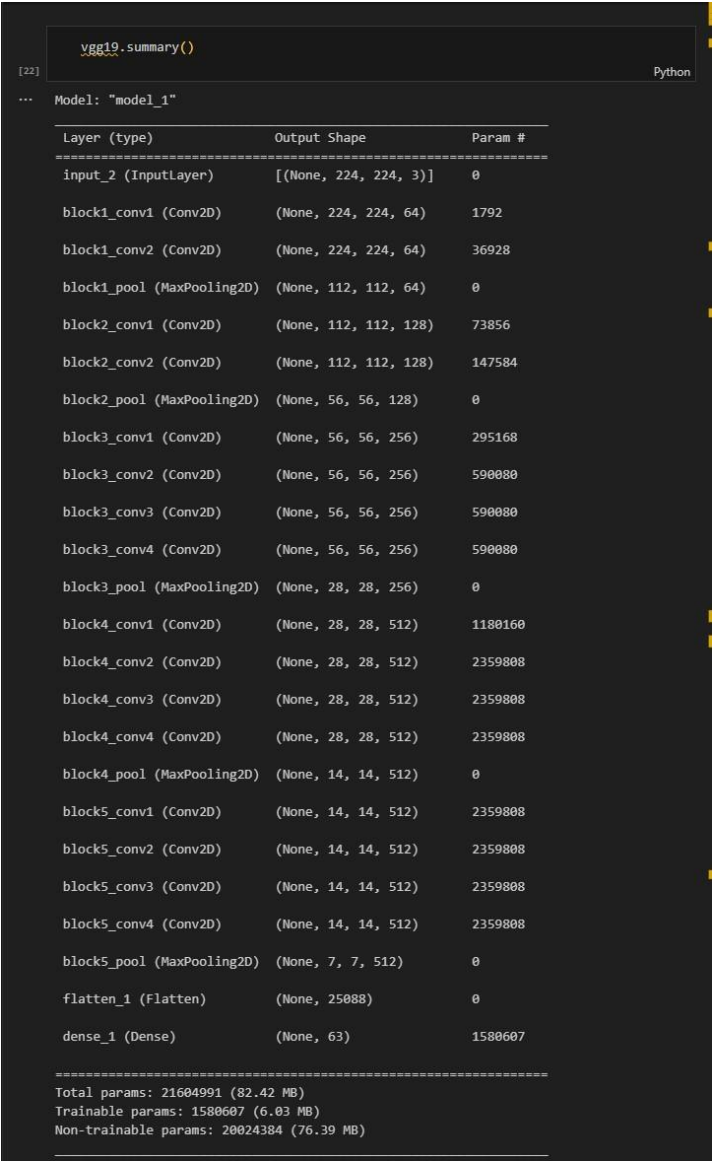


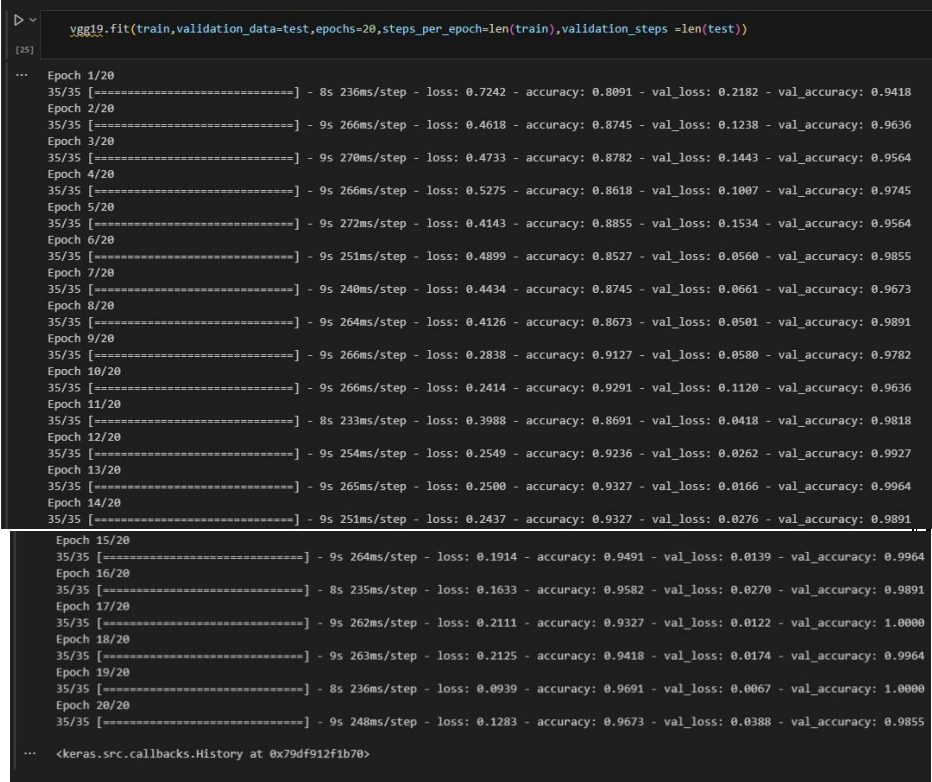
**Project Development Phase
Model Performance Test**

Date	17/11/2023
Team ID	Team-592815
Project Name	Fake/Real Logo Detection using Deep learning
Maximum Marks	10 Marks

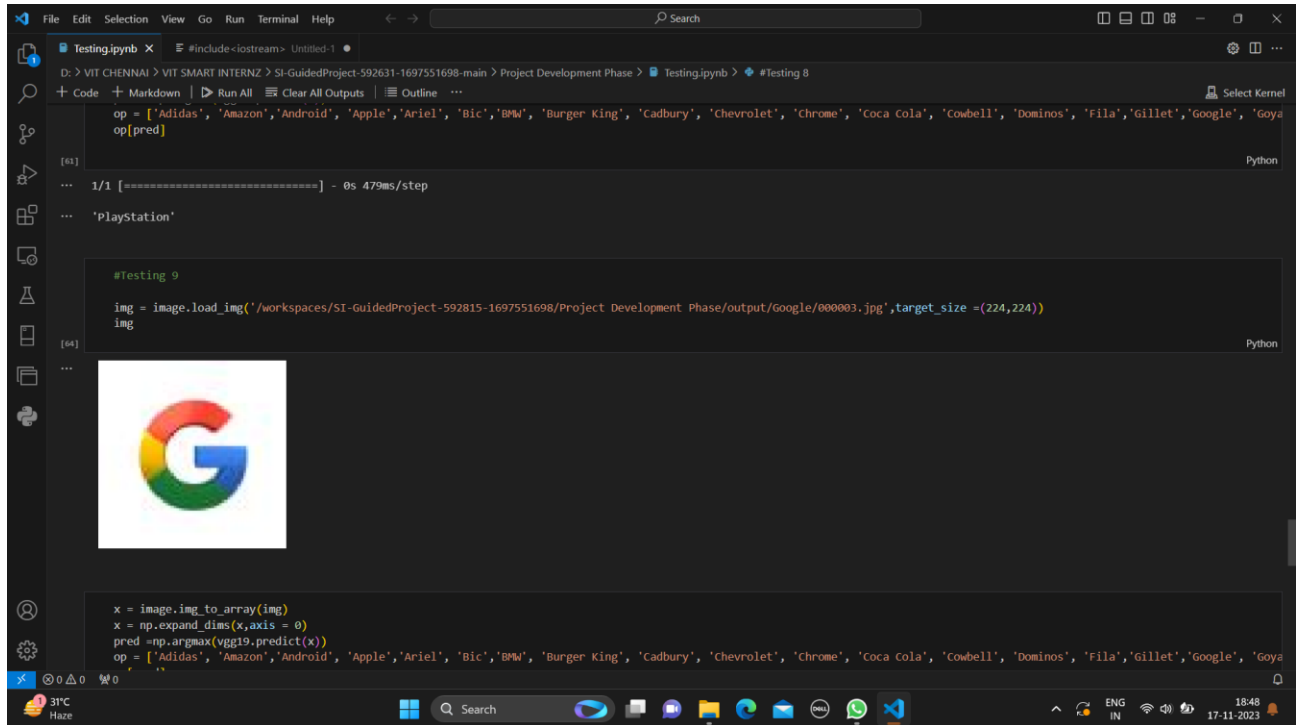
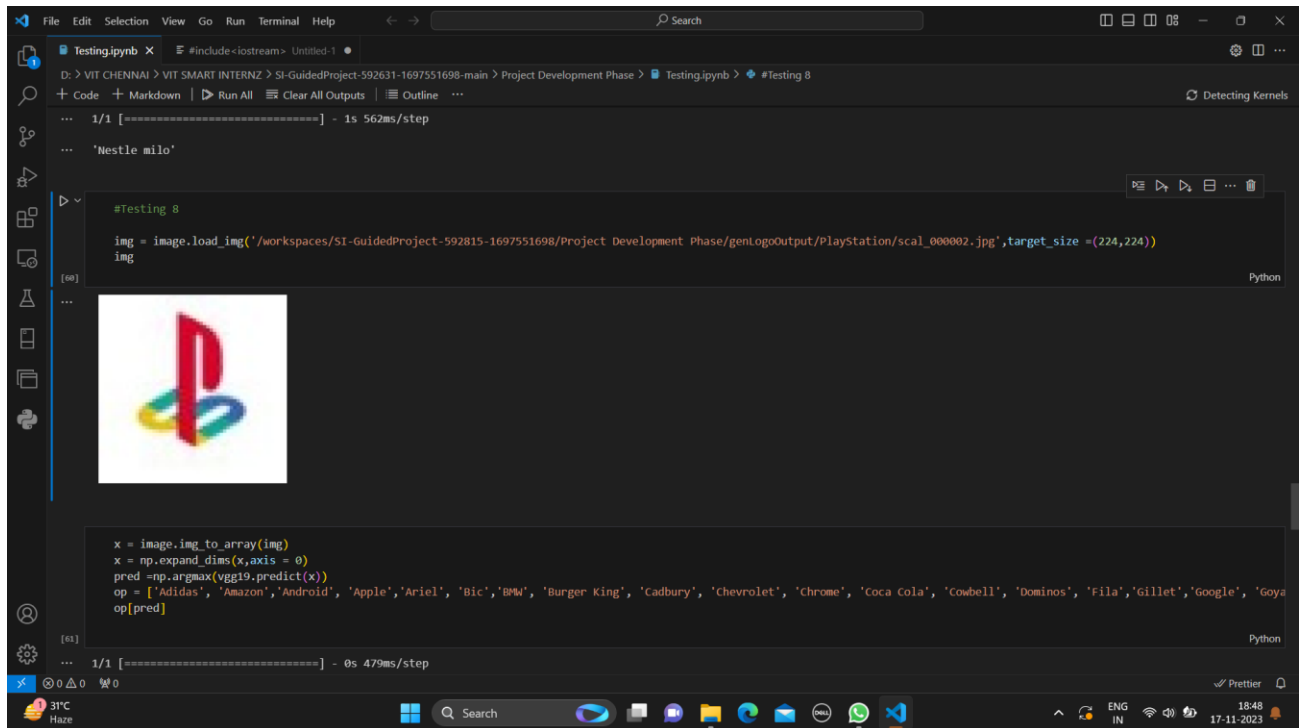
Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	 <pre>vgg19.summary() [22] Python ... Model: "model_1" Layer (type) Output Shape Param # ----- input_2 (InputLayer) [(None, 224, 224, 3)] 0 block1_conv1 (Conv2D) (None, 224, 224, 64) 1792 block1_conv2 (Conv2D) (None, 224, 224, 64) 36928 block1_pool (MaxPooling2D) (None, 112, 112, 64) 0 block2_conv1 (Conv2D) (None, 112, 112, 128) 73856 block2_conv2 (Conv2D) (None, 112, 112, 128) 147584 block2_pool (MaxPooling2D) (None, 56, 56, 128) 0 block3_conv1 (Conv2D) (None, 56, 56, 256) 295168 block3_conv2 (Conv2D) (None, 56, 56, 256) 590080 block3_conv3 (Conv2D) (None, 56, 56, 256) 590080 block3_conv4 (Conv2D) (None, 56, 56, 256) 590080 block3_pool (MaxPooling2D) (None, 28, 28, 256) 0 block4_conv1 (Conv2D) (None, 28, 28, 512) 1180160 block4_conv2 (Conv2D) (None, 28, 28, 512) 2359808 block4_conv3 (Conv2D) (None, 28, 28, 512) 2359808 block4_conv4 (Conv2D) (None, 28, 28, 512) 2359808 block4_pool (MaxPooling2D) (None, 14, 14, 512) 0 block5_conv1 (Conv2D) (None, 14, 14, 512) 2359808 block5_conv2 (Conv2D) (None, 14, 14, 512) 2359808 block5_conv3 (Conv2D) (None, 14, 14, 512) 2359808 block5_conv4 (Conv2D) (None, 14, 14, 512) 2359808 block5_pool (MaxPooling2D) (None, 7, 7, 512) 0 flatten_1 (Flatten) (None, 25088) 0 dense_1 (Dense) (None, 63) 1580607 Total params: 21604991 (82.42 MB) Trainable params: 1580607 (6.03 MB) Non-trainable params: 20024384 (76.39 MB)</pre>

2.	Accuracy	Training Accuracy: 0.9673 (96.73%) Validation Accuracy: 0.9855 (98.55%)	
3.	Confidence Score (Only Yolo Projects)	Class Detected - Confidence Score -	

SCREENSHOTS:



File Edit Selection View Go Run Terminal Help

Testing.ipynb X #include<iostream> Untitled-1

D:\> VIT CHENNAI > VIT SMART INTERNZ > SI-GuidedProject-592631-1697551698-main > Project Development Phase > Testing.ipynb > #Testing 8

+ Code + Markdown | Run All Clear All Outputs | Outline

Select Kernel Python

```
pred=np.argmax(vgg19.predict(x))
op = ['Adidas', 'Amazon','Android', 'Apple','Ariel', 'Bic','B&W', 'Burger King', 'Cadbury', 'Chevrolet', 'Chrome', 'Coca Cola', 'Cowbell', 'Dominos', 'Fila','Gillet','Google', 'Goya
op[pred]
```

[63]

... 1/1 [=====] - 1s 503ms/step


... 'Google'

#Testing 10

```
img = image.load_img('/workspaces/SI-GuidedProject-592815-1697551698/Project Development Phase/output/Burger King/000004.jpg',target_size =(224,224))
img
```

[69]

...



x = image.img_to_array(img)
x = np.expand_dims(x,axis = 0)
pred =np.argmax(vgg19.predict(x))

31°C Haze

File Edit Selection View Go Run Terminal Help

Testing.ipynb X #include<iostream> Untitled-1

D:\> VIT CHENNAI > VIT SMART INTERNZ > SI-GuidedProject-592631-1697551698-main > Project Development Phase > Testing.ipynb > #Testing 8

+ Code + Markdown | Run All Clear All Outputs | Outline

Select Kernel Python

... 1/1 [=====] - 0s 457ms/step


... 'YouTube'

#Testing 6

```
img = image.load_img('/workspaces/SI-GuidedProject-592815-1697551698/Project Development Phase/output/Sprite/000002.jpg',target_size =(224,224))
img
```

[96]

...



x = image.img_to_array(img)
x = np.expand_dims(x,axis = 0)
pred =np.argmax(vgg19.predict(x))
op = ['Adidas', 'Amazon','Android', 'Apple','Ariel', 'Bic','B&W', 'Burger King', 'Cadbury', 'Chevrolet', 'Chrome', 'Coca cola', 'Cowbell', 'Dominos', 'Fila','Gillet','Google', 'Goya
op[pred]

[97]

31°C Haze