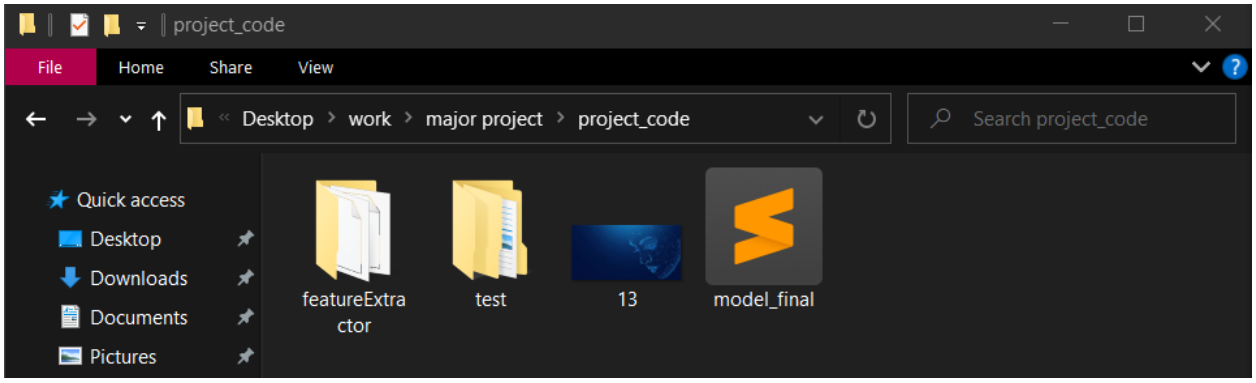
EXECUTION

Softwares required:

- Python – latest version
- TensorFlow
- CUDA
- cudaNN

Steps:

1. Download all files and extract them.
2. Store all files in the same directory.



3. Change file paths for featureExtractor, image, real and fake files if you store these files in different directory than the executable file.
4. The lines to be changed in the above case are 17, 18, 32, 48, 49, 57 and 58.

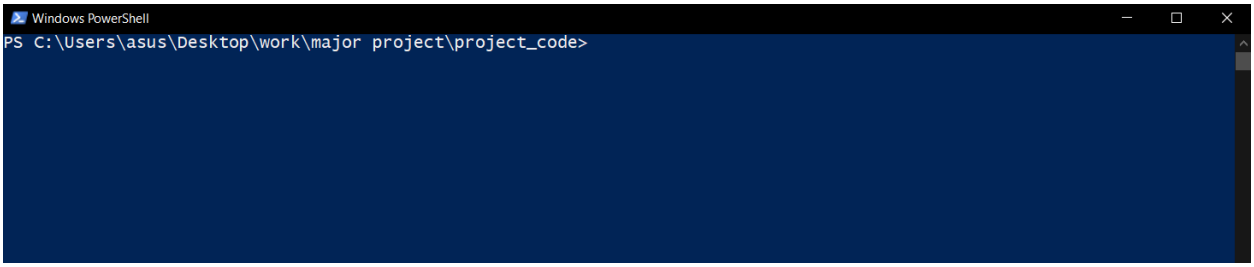
```
17  cffn = tf.keras.models.load_model(filepath = "./featureExtractor")
18  cffn.predict(np.array([cv2.resize(cv2.imread('./test/real/000001.jpg'), (64, 64))]))
```

```
32  image1 = Image.open("./13.jpg")
```

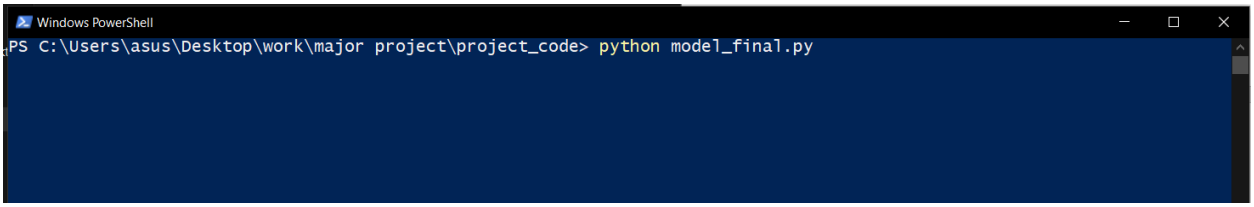
```
48      real_path = random.choice(os.listdir("./data/test/test/real"))
49      fake_path = random.choice(os.listdir("./data/test/test/fake"))
```

```
57      real_imgs.append(cv2.resize(cv2.imread(os.path.join('./data/test/test/real', np.random.choice(os.listdir('./data/test/test/real')))), (64, 64)))
58      fake_imgs.append(cv2.resize(cv2.imread(os.path.join('./data/test/test/fake', np.random.choice(os.listdir('./data/test/test/fake')))), (64, 64)))
```

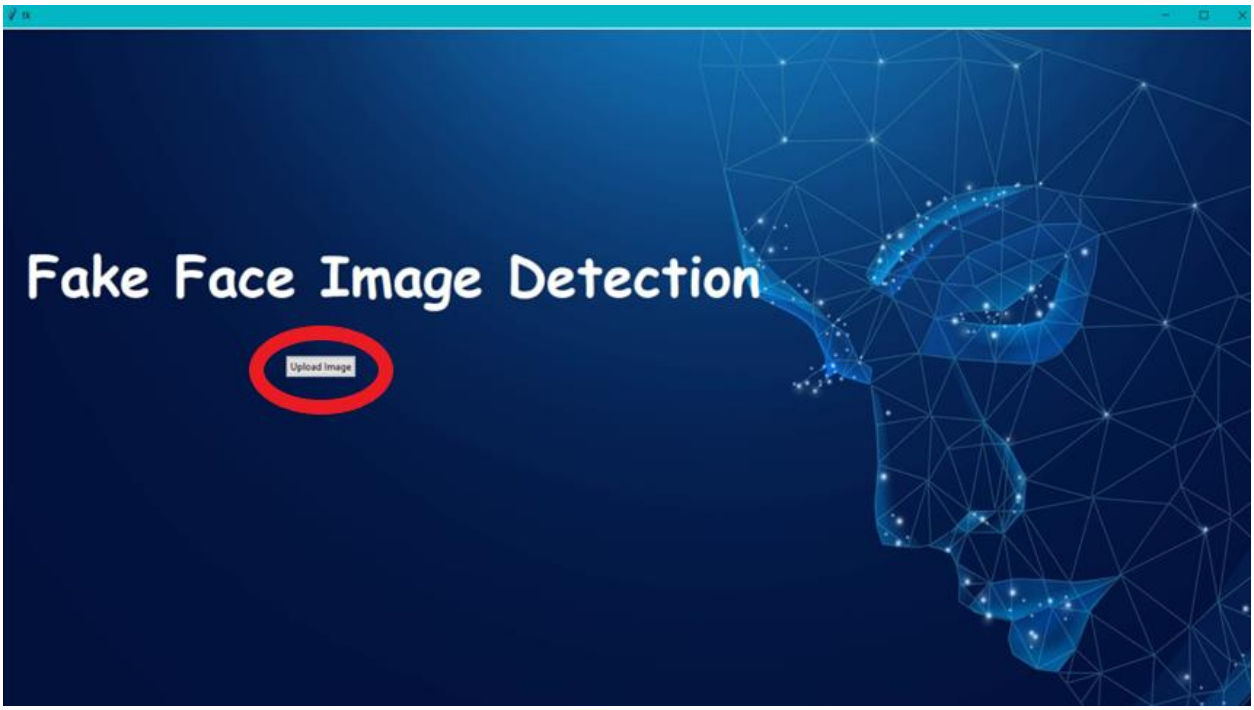
5. Open command prompt or PowerShell
6. Open the directory where the executable is stored.



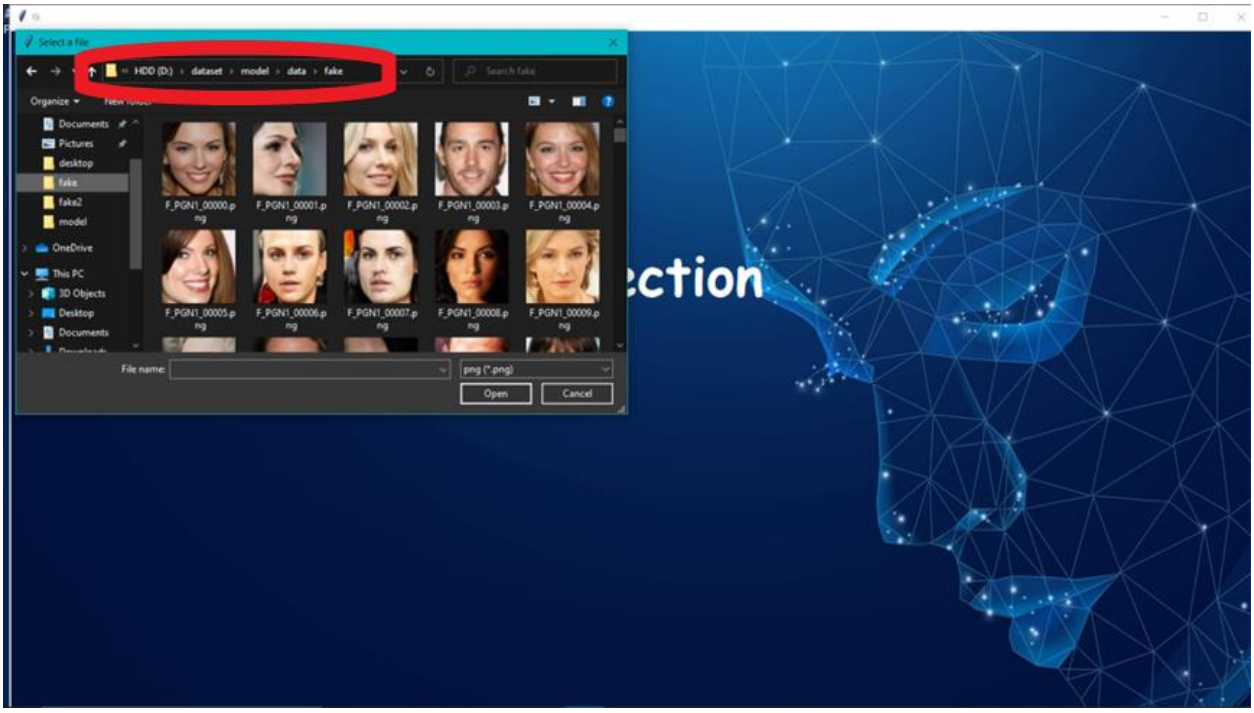
7. Execute the python file named mode_final.py.



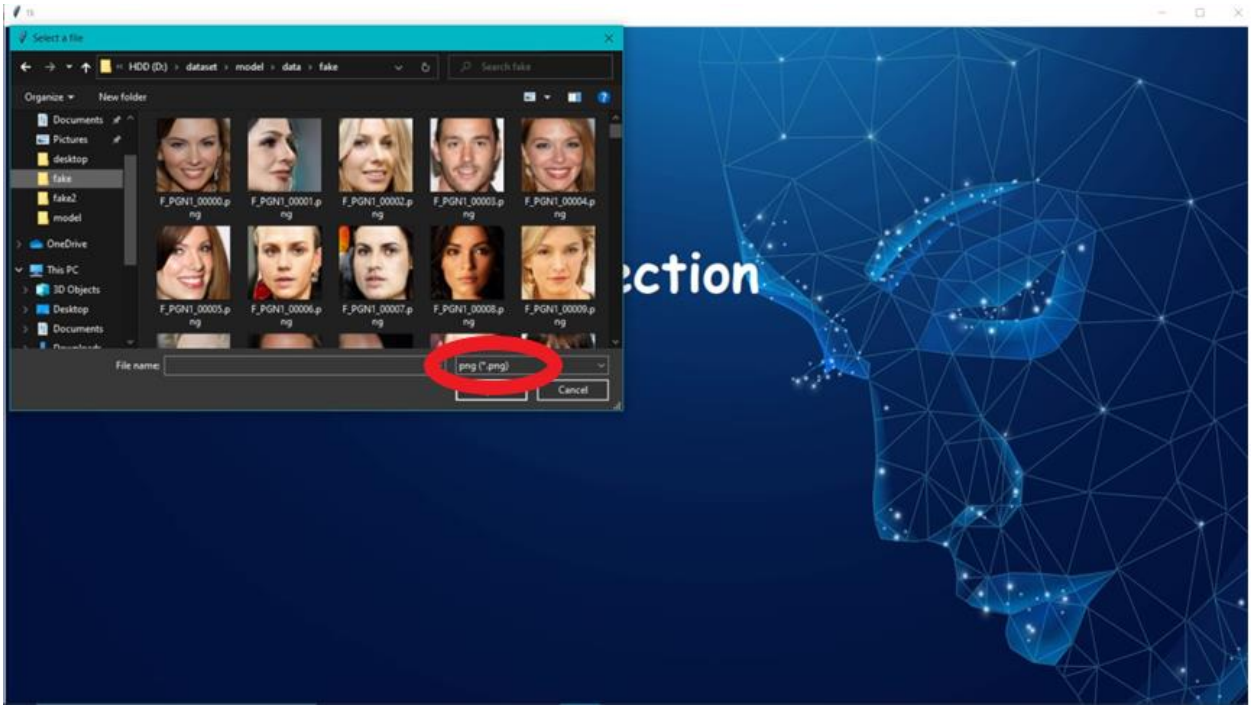
8. Wait till a GUI pops up on the screen.
9. Click on upload image.



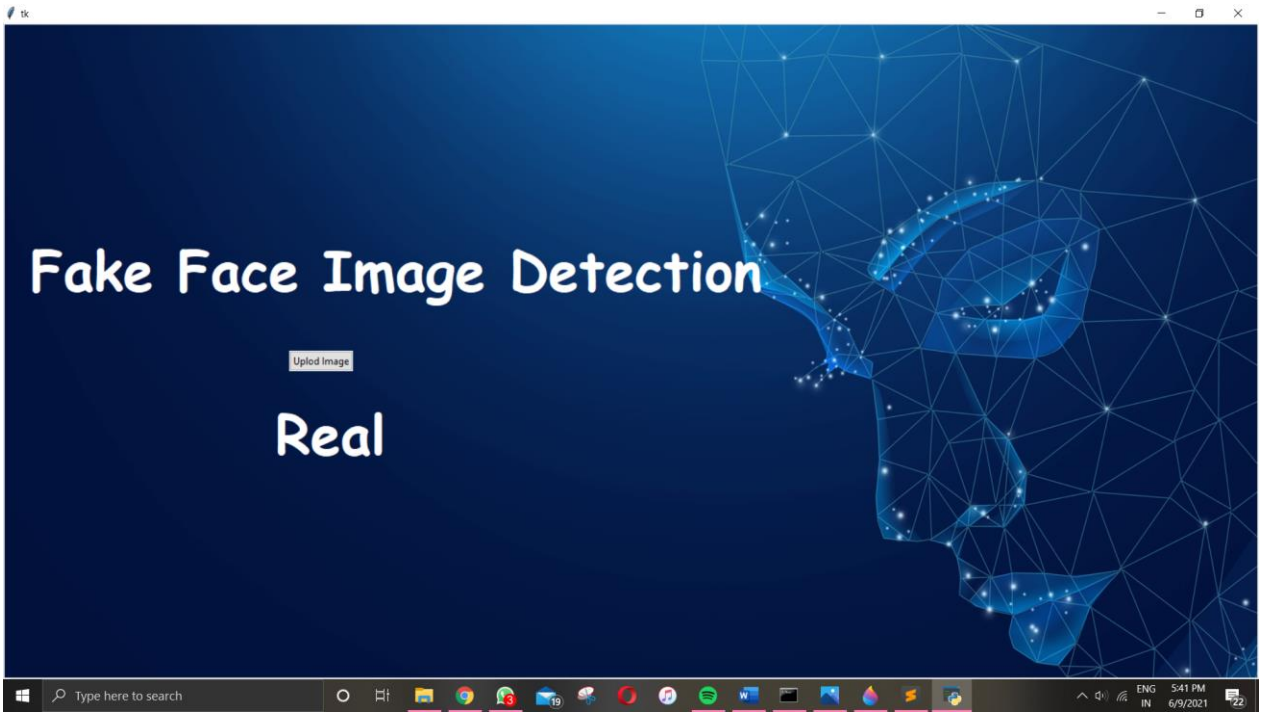
10. Go to the directory where the picture you want to test is stored.



11. Chose the type of image.



12. Select the image you want to test.
13. Output is displayed.



14. Repeat the steps 9 and 10 depending on how many images you want to test.
15. Press the close window to stop the model.