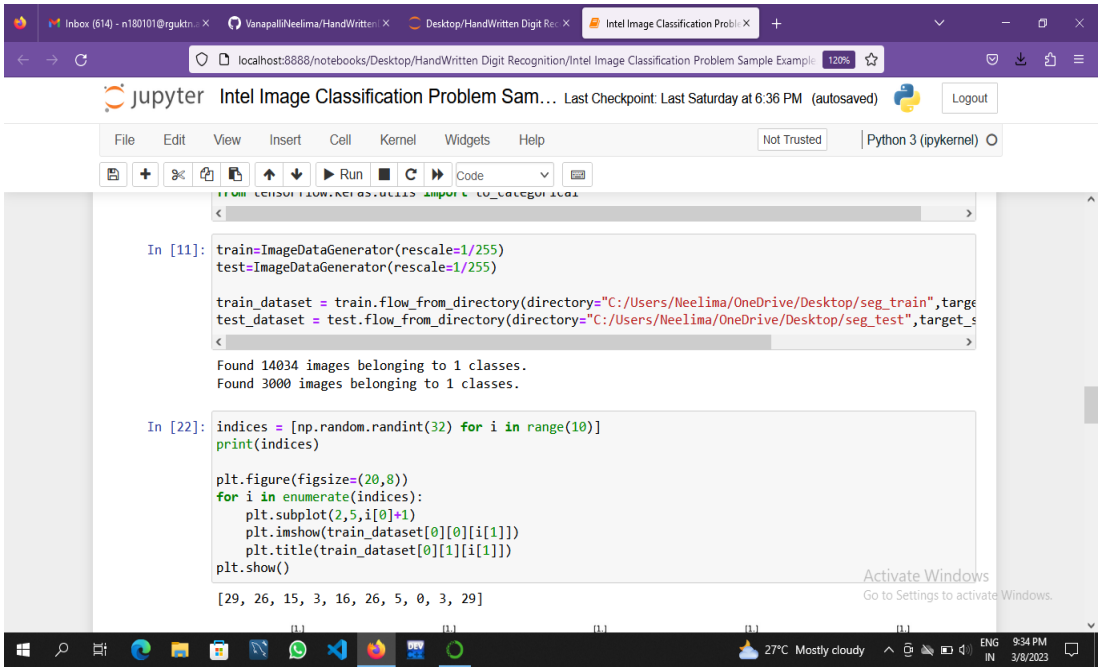
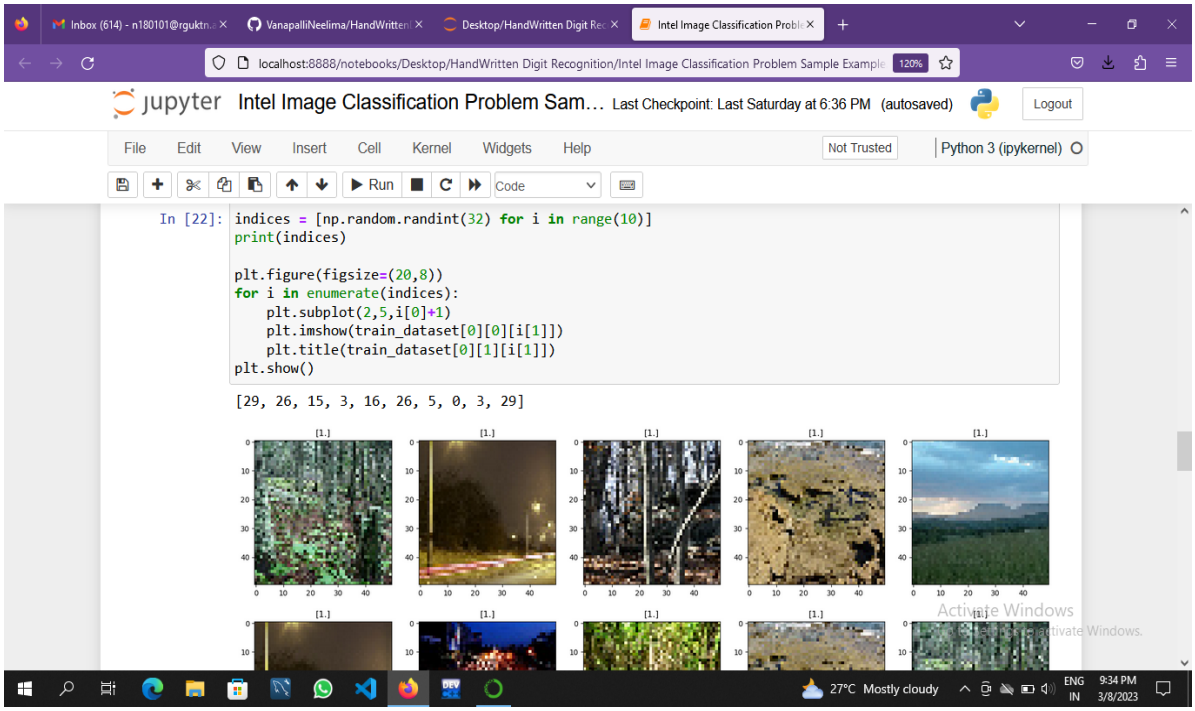
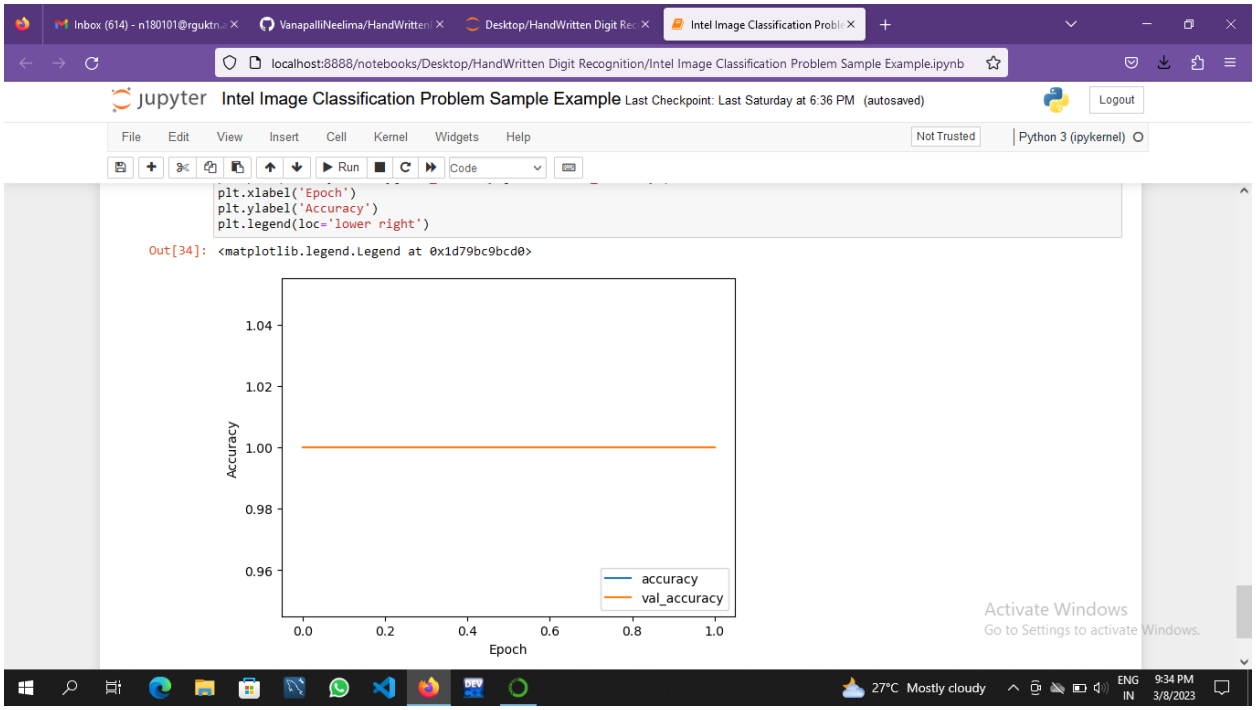
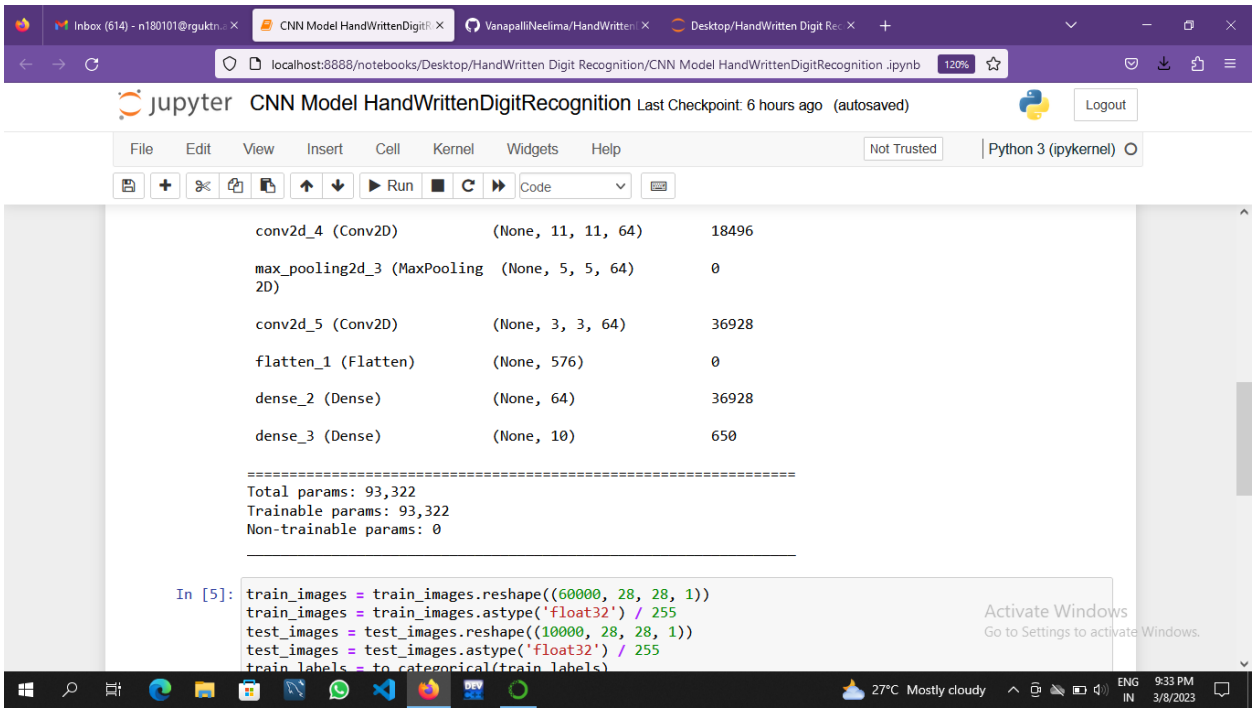
Intel Image Classification Outputs






Intel Image Classification Problem Sample Example Last Checkpoint: Last Saturday at 6:36 PM (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
plt.xlabel('Epoch')
plt.ylabel('Accuracy')
plt.legend(loc='lower right')
Out[34]: <matplotlib.legend.Legend at 0x1d79bc9bcd0>
1.04
1.02
1.00
0.98
0.96
Accuracy
0.0
0.2
0.4
0.6
0.8
1.0
Epoch
accuracy
val_accuracy
Activate Windows
Go to Settings to activate Windows.
27°C Mostly cloudy
ENG IN
9:34 PM
3/8/2023

CNN Model


CNN Model HandWrittenDigitRecognition Last Checkpoint: 6 hours ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
conv2d_4 (Conv2D) (None, 11, 11, 64) 18496
max_pooling2d_3 (MaxPooling 2D) (None, 5, 5, 64) 0
conv2d_5 (Conv2D) (None, 3, 3, 64) 36928
flatten_1 (Flatten) (None, 576) 0
dense_2 (Dense) (None, 64) 36928
dense_3 (Dense) (None, 10) 650
Total params: 93,322
Trainable params: 93,322
Non-trainable params: 0
In [5]: train_images = train_images.reshape((60000, 28, 28, 1))
train_images = train_images.astype('float32') / 255
test_images = test_images.reshape((10000, 28, 28, 1))
test_images = test_images.astype('float32') / 255
Activate Windows
Go to Settings to activate Windows.
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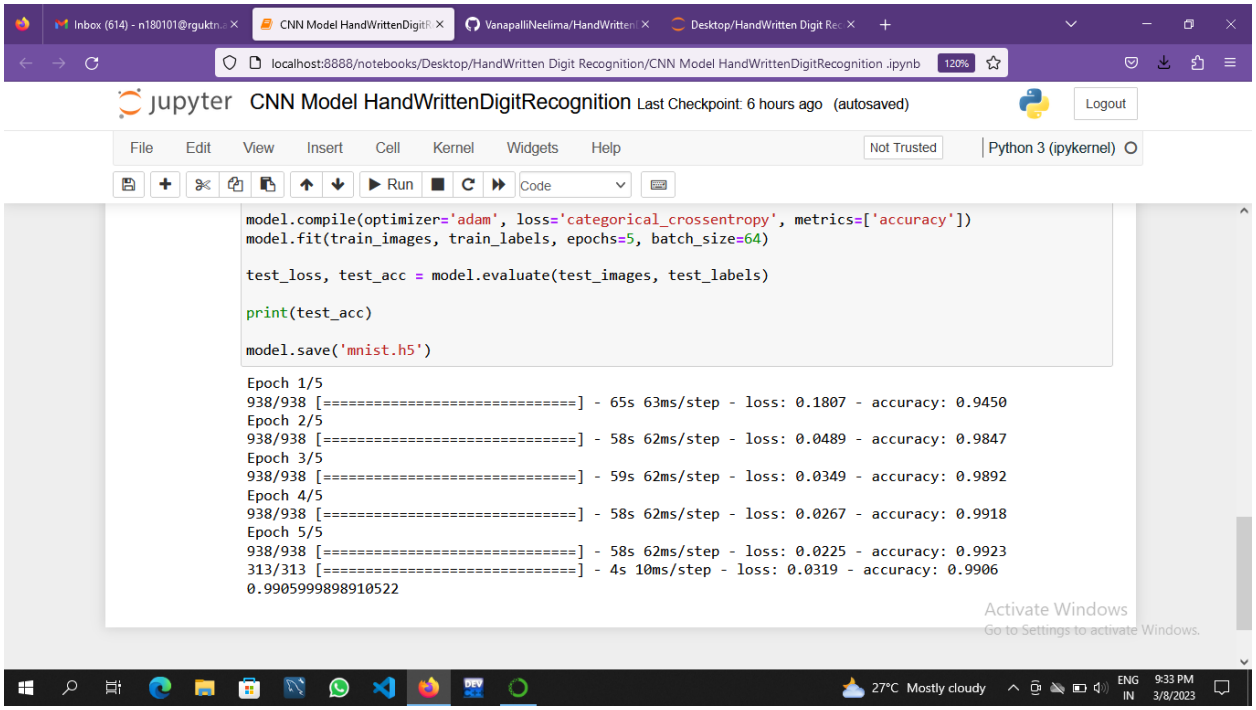
3/8/2023


jupyter CNN Model HandWrittenDigitRecognition Last Checkpoint: 6 hours ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
model.compile(optimizer='adam', loss='categorical_crossentropy', metrics=['accuracy'])
model.fit(train_images, train_labels, epochs=5, batch_size=64)
test_loss, test_acc = model.evaluate(test_images, test_labels)
print(test_acc)
model.save('mnist.h5')
Epoch 1/5
938/938 [==============================] - 65s 63ms/step - loss: 0.1807 - accuracy: 0.9450
Epoch 2/5
938/938 [==============================] - 58s 62ms/step - loss: 0.0489 - accuracy: 0.9847
Epoch 3/5
938/938 [==============================] - 59s 62ms/step - loss: 0.0349 - accuracy: 0.9892
Epoch 4/5
938/938 [==============================] - 58s 62ms/step - loss: 0.0267 - accuracy: 0.9918
Epoch 5/5
938/938 [==============================] - 58s 62ms/step - loss: 0.0225 - accuracy: 0.9923
313/313 [==============================] - 4s 10ms/step - loss: 0.0319 - accuracy: 0.9906
0.9905999898910522
Activate Windows
Go to Settings to activate Windows.
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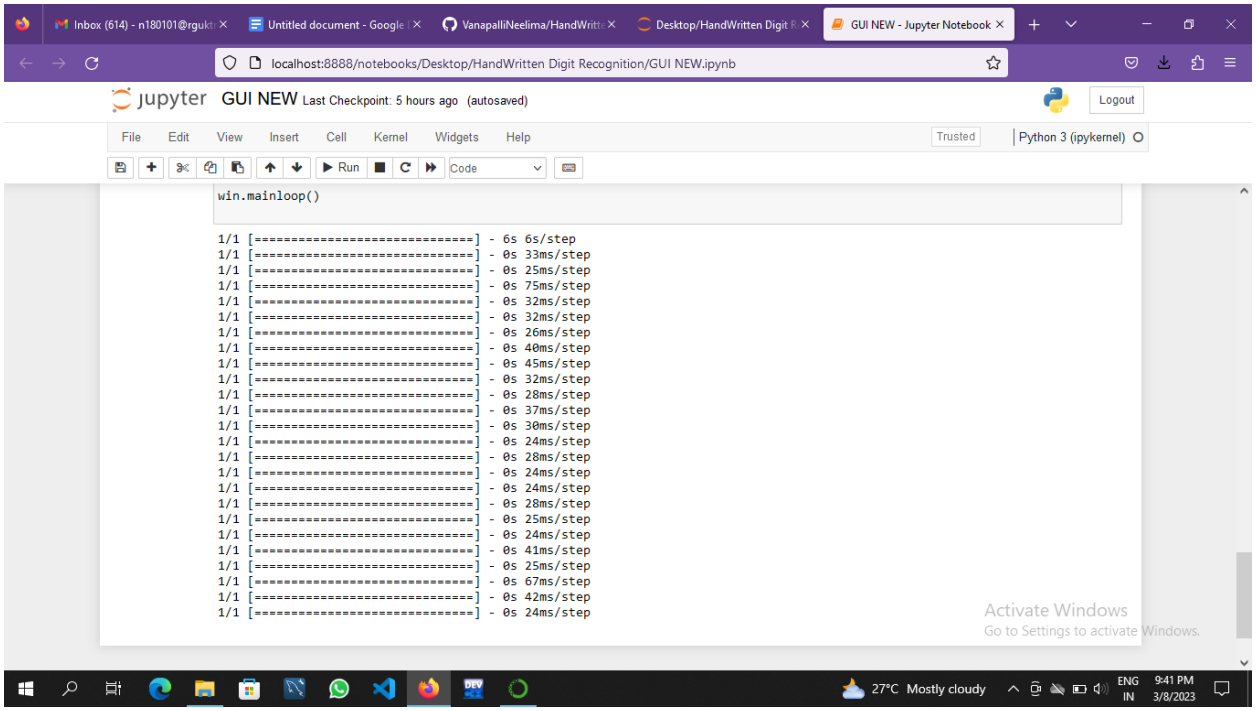
GUI


jupyter GUI NEW Last Checkpoint: 5 hours ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
win.mainloop()
1/1 [==============================] - 6s 6s/step
1/1 [==============================] - 0s 33ms/step
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 75ms/step
1/1 [==============================] - 0s 32ms/step
1/1 [==============================] - 0s 32ms/step
1/1 [==============================] - 0s 26ms/step
1/1 [==============================] - 0s 40ms/step
1/1 [==============================] - 0s 45ms/step
1/1 [==============================] - 0s 32ms/step
1/1 [==============================] - 0s 28ms/step
1/1 [==============================] - 0s 37ms/step
1/1 [==============================] - 0s 30ms/step
1/1 [==============================] - 0s 24ms/step
1/1 [==============================] - 0s 28ms/step
1/1 [==============================] - 0s 24ms/step
1/1 [==============================] - 0s 24ms/step
1/1 [==============================] - 0s 28ms/step
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 24ms/step
1/1 [==============================] - 0s 41ms/step
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 67ms/step
1/1 [==============================] - 0s 42ms/step
1/1 [==============================] - 0s 24ms/step
Activate Windows
Go to Settings to activate Windows.
27°C Mostly cloudy
ENG IN
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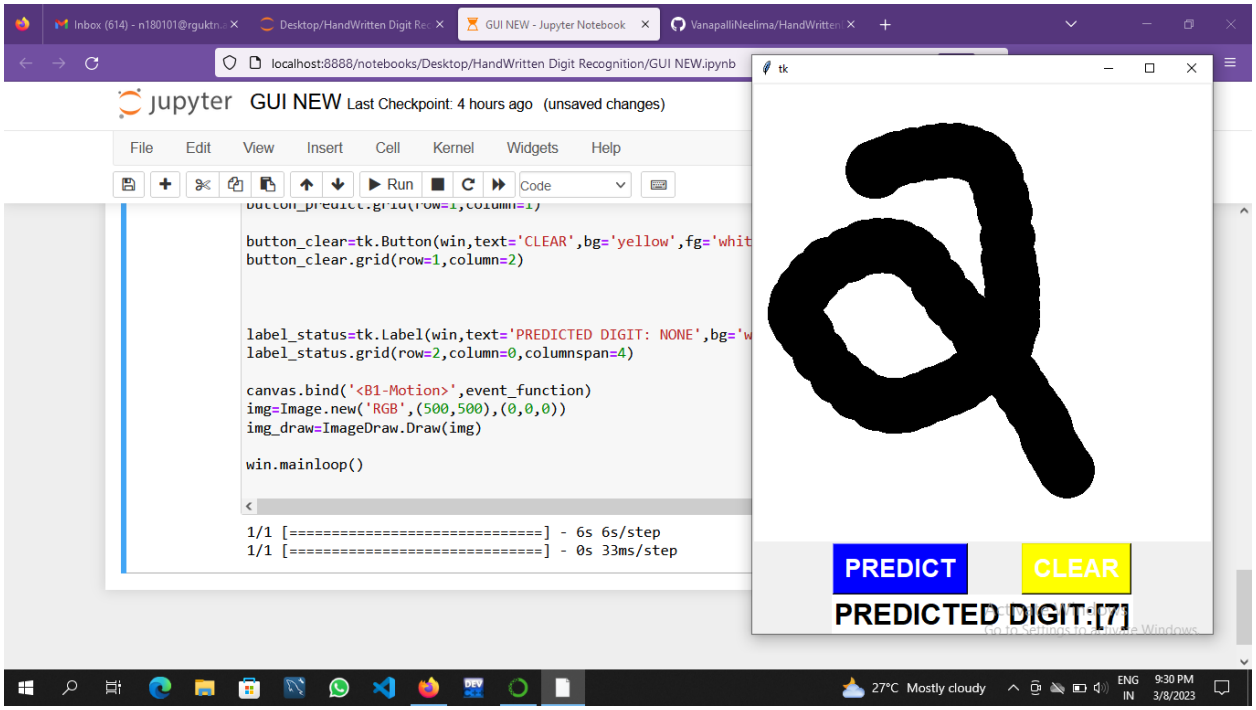
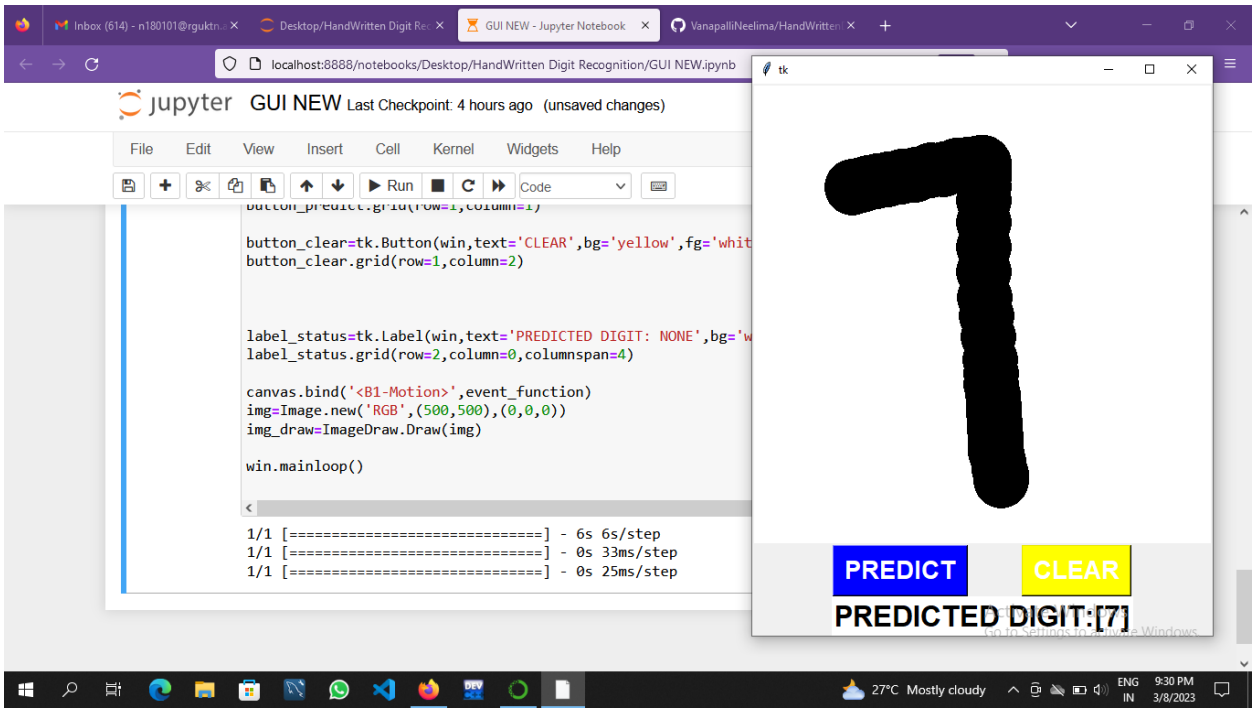

GUI NEW - Jupyter Notebook
localhost:8888/notebooks/Desktop/HandWritten Digit Recognition/GUI NEW.ipynb
jupyter GUI NEW Last Checkpoint: 4 hours ago (unsaved changes)
File Edit View Insert Cell Kernel Widgets Help
Run Code
button_clear=tk.Button(win,text='CLEAR',bg='yellow',fg='whit
button_clear.grid(row=1,column=2)
label_status=tk.Label(win,text='PREDICTED DIGIT: NONE',bg='w
label_status.grid(row=2,column=0,columnspan=4)
canvas.bind('<B1-Motion>',event_function)
img=Image.new('RGB',(500,500),(0,0,0))
img_draw=ImageDraw.Draw(img)
win.mainloop()
1/1 [==============================] - 6s 6s/step
1/1 [==============================] - 0s 33ms/step
tk
PREDICT
CLEAR
PREDICTED DIGIT:[7]
27°C Mostly cloudy
ENG IN
9:30 PM 3/8/2023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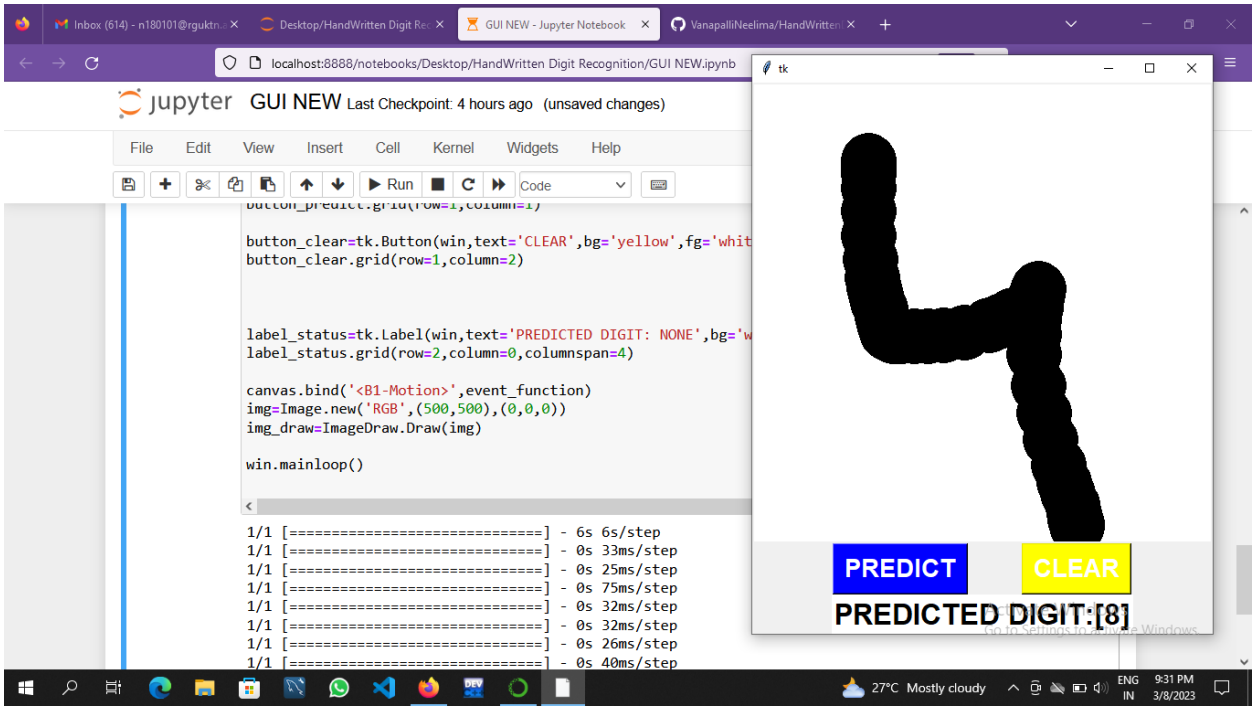
1/1 [==============================] - 6s 6s/step
1/1 [==============================] - 0s 33ms/step
1/1 [==============================] - 0s 25ms/step
tk
PREDICT
CLEAR
PREDICTED DIGIT:[7]
27°C Mostly cloudy
ENG IN
9:30 PM 3/8/2023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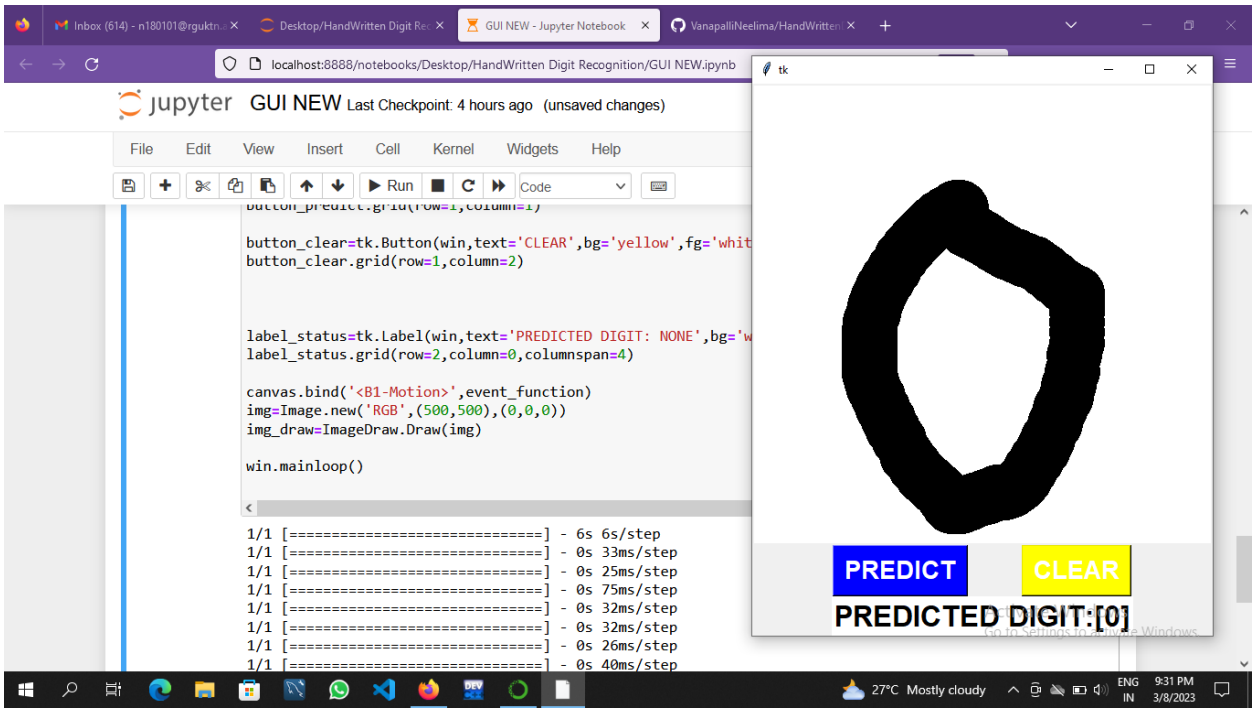
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 75ms/step
1/1 [==============================] - 0s 32ms/step
1/1 [==============================] - 0s 32ms/step
1/1 [==============================] - 0s 26ms/step
1/1 [==============================] - 0s 40ms/step
tk
PREDICT
CLEAR
PREDICTED DIGIT:[8]
27°C Mostly cloudy
ENG IN
9:31 PM 3/8/2023


GUI NEW - Jupyter Notebook
localhost:8888/notebooks/Desktop/HandWritten Digit Recognition/GUI NEW.ipynb
jupyter GUI NEW Last Checkpoint: 4 hours ago (unsaved changes)
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1/1 [==============================] - 0s 33ms/step
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 75ms/step
1/1 [==============================] - 0s 32ms/step
1/1 [==============================] - 0s 32ms/step
1/1 [==============================] - 0s 26ms/step
1/1 [==============================] - 0s 40ms/step
tk
PREDICT
CLEAR
PREDICTED DIGIT:[0]
27°C Mostly cloudy
ENG IN
9:31 PM 3/8/2023