

File Edit Selection View Go Run Terminal Help

predict.html X home.html app.py

EXPLORER

- P2
 - __pycache__
 - model
 - digitRecog.h5
 - model.h5
 - sample
 - static
 - templates
 - home.html
 - predict.html
 - app.py
 - Digit Recognition.ipynb
 - recognizer.py
 - requirements.txt

templates > predict.html

```
1 <html>
2 <head>
3   <title>Prediction | Handwritten Digit Recognition</title>
4   <link rel="stylesheet" href="{{url_for('static',filename='css/predict.css')}}" />
5   <link rel="icon" type="image/svg" sizes="32x32" href="{{url_for('static',filename='images/icon.svg')}}" />
6
7   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-Zenh87qX5JnK2J10vWa8C
8   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
9 </head>
10 <body>
11   <div class="container">
12     <h1>Prediction</h1>
13     <div class="result-wrapper">
14       <div class="input-image-container">
15         
16       </div>
17       <div class="result-container">
18         <div class="value">{{best.0}}</div>
19         <div class="accuracy">{{best.1}}%</div>
20       </div>
21     </div>
22     <h1>Other Predictions</h1>
23     <div class="other predictions">
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

WARNING:tensorflow:5 out of the last 5 calls to <function Model.make_predict_function.<locals>.predict function at 0x0000023B95CC3AC0> triggered tf.function retracing. Tracing is expensive and the excessive number of tracings could be due to (1) creating @tf.function repeatedly in a loop, (2) passing tensors with different shapes, (3) passing Python objects instead of tensors. For (1), please define your @tf.function outside of the loop. For (2), @tf.function has reduce_retracing=True option that can avoid unnecessary retracing. For (3), please refer to https://www.tensorflow.org/guide/function#controlling_retracing and https://www.tensorflow.org/api_docs/python/tf/function for more details.

```
1/1 [=====] - 0s 255ms/step
127.0.0.1 - - [17/Nov/2022 14:46:14] "POST /predict HTTP/1.1" 200 -
127.0.0.1 - - [17/Nov/2022 14:46:14] "GET /static/css/predict.css HTTP/1.1" 304 -
127.0.0.1 - - [17/Nov/2022 14:46:14] "GET /static/data/RE043A63GM.jpg HTTP/1.1" 200 -
```

History restored

PS C:\Users\aravi\OneDrive\Desktop\IBM Project\p2>

Ln 20, Col 23 Tab Size: 4 UTF-8 LF Django HTML Prettier

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Search

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__pycache__

model

digitRecog.h5

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static

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recognizer.py

requirements.txt

templates > home.html

```
1 <html>
2 <head>
3   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
4   <title>Handwritten Digit Recognition</title>
5   <link rel="icon" type="image/svg" sizes="32x32" href="{{url_for('static',filename='images/icon.svg')}}" />
6   <link rel="stylesheet" href="{{url_for('static',filename='css/main.css')}}" />
7   <script src="https://unpkg.com/feather-icons"></script>
8   <script defer src="{{url_for('static',filename='js/script.js')}}"></script>
9 </head>
10 <body>
11   <div class="container">
12     <div class="heading">
13       <h1 class="heading_main">Handwritten Digit Recognizer</h1>
14       <h2 class="heading_sub">Web Application to detect Handwritten digits</h2>
15     </div>
16     <div class="upload-container">
17       <div class="form-wrapper">
18         <form class="upload" action="/predict" method="post" enctype="multipart/form-data">
19           <label id="label" for="upload-image"><i data-feather="file-plus"></i>Select File</label>
20           <input type="file" name="photo" id="upload-image" hidden />
21           <button type="submit" id="up_btn"></button>
22         </form>
23         
24       </div>
25     </div>
26   </div>
27 </body>
28 </html>
```

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History restored

PS C:\Users\aravi\OneDrive\Desktop\IBM Project\p2>

Python Python

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File Edit Selection View Go Run Terminal Help

← → p2

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EXPLORER

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▼ model

digitRecog.h5

model.h5

> sample

> static

▼ templates

home.html

predict.html

◆ app.py

Digit Recognition.ipynb

recognizer.py

requirements.txt

> OUTLINE

> TIMELINE

predict.html

home.html

app.py

app.py > ...

```
1 from flask import Flask,render_template,request
2 from recognizer import recognize
3
4 app=Flask(__name__)
5
6 @app.route('/')
7 def main():
8     return render_template("home.html")
9
10
11 @app.route('/predict',methods=['POST'])
12 def predict():
13     if request.method=='POST':
14         image = request.files.get('photo', '')
15         best, others, img_name = recognize(image)
16         return render_template("predict.html", best=best, others=others, img_name=img_name)
17
18
19 if __name__=="__main__":
20     app.run()
21
```

0 0 Cloud Code Connect to Google Cloud

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20     app.run()
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```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python + -

```
PS C:\Users\aravi\OneDrive\Desktop\IBM Project\p2> & C:/Users/aravi/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/aravi/OneDrive/Desktop/IBM Project/p2/app.py"
2022-11-17 14:56:57.656724: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2022-11-17 14:56:57.656989: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

0 0 Cloud Code Connect to Google Cloud

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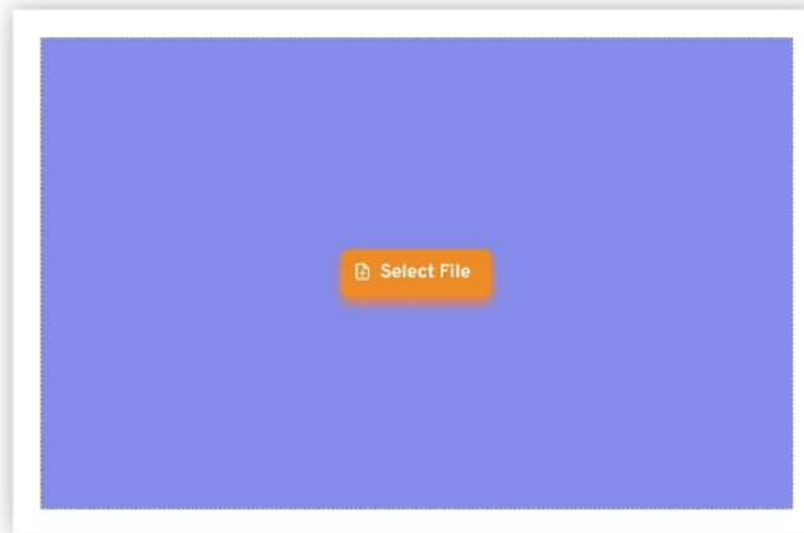
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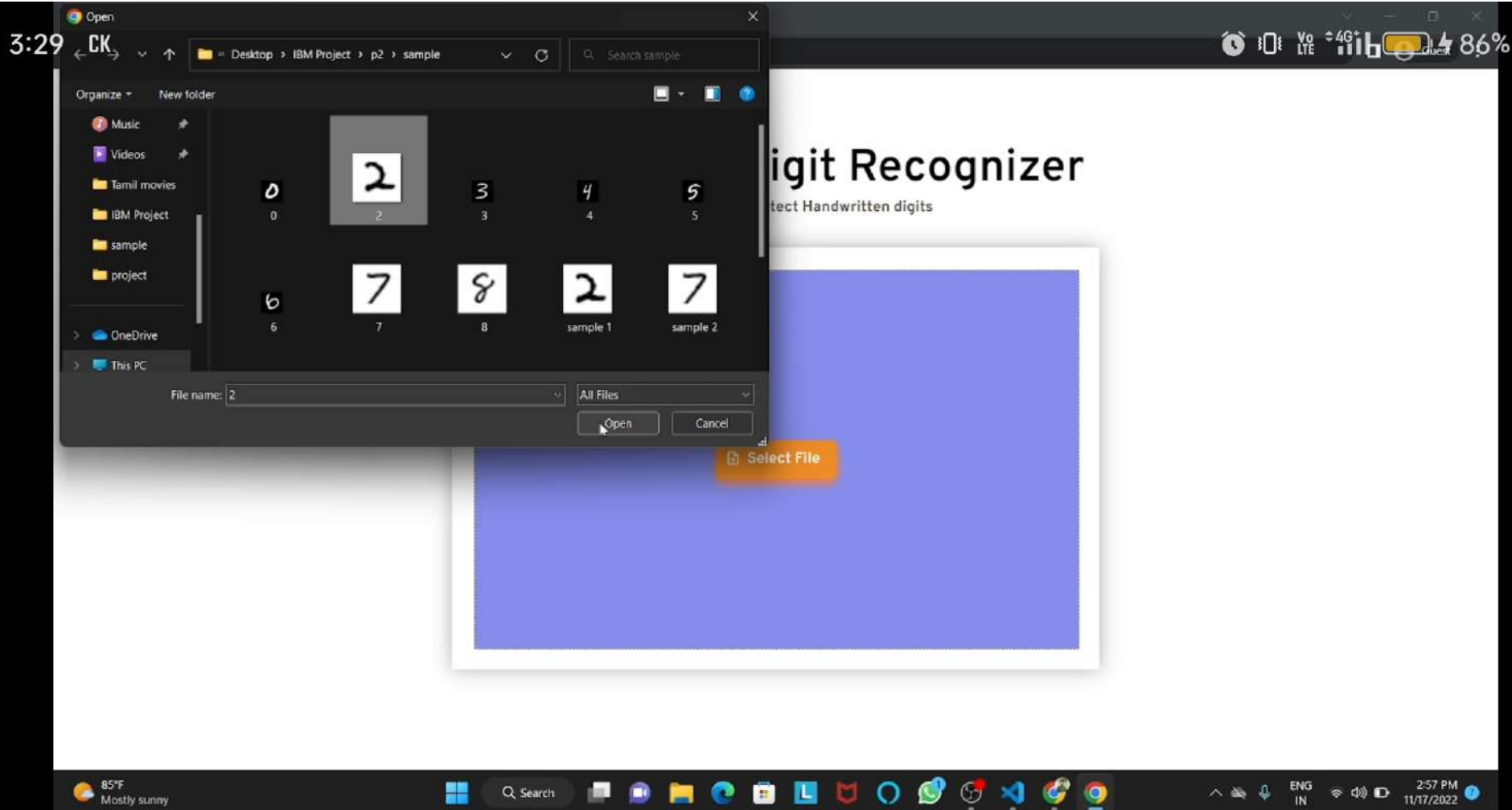
Search

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Handwritten Digit Recognizer

Web Application to detect Handwritten digits





Prediction



Other Predictions

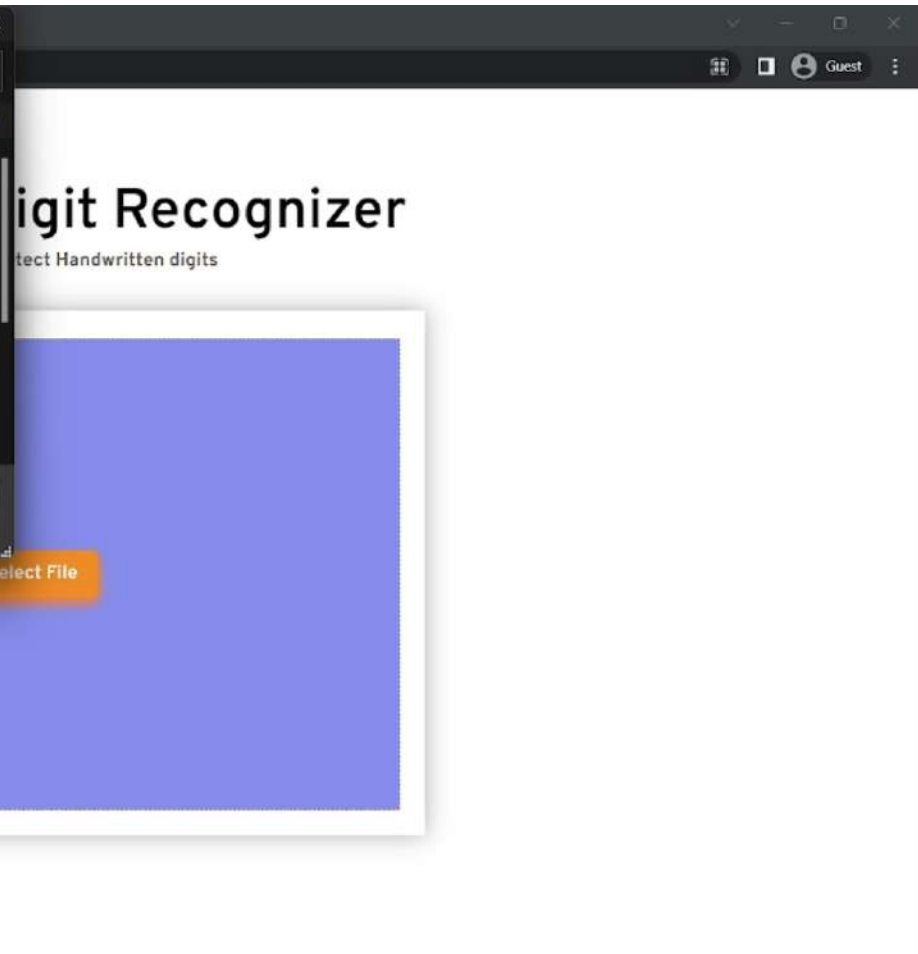
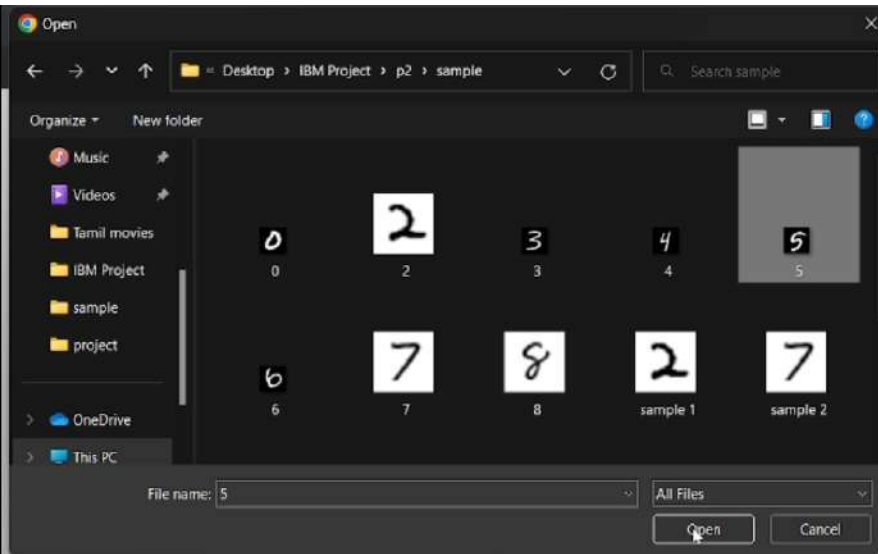
0	1	3	4	5	6	7	8	9
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Detect Another Image

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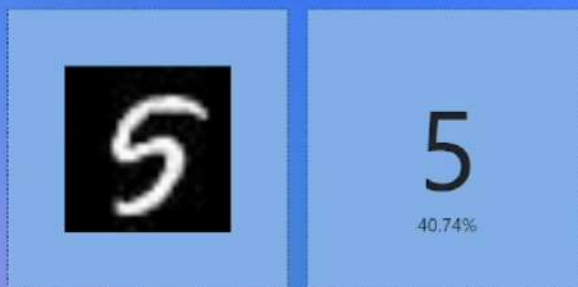


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Prediction



Other Predictions

0	1	2	3	4	6	7	8	9
10.53%	0.01%	5.89%	5.36%	2.33%	3.71%	0.27%	4.07%	27.09%

Detect Another Image

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11/17/2022