

# Sprint-3

## Application Building

### RUN THE APP

Date	13Nov 2022
TeamID	PNT2022TMID33910
ProjectName	Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation

### TASK:

*Run The App.*

**RUN ON LOCAL HOST (SCREEN SHOT):**

```

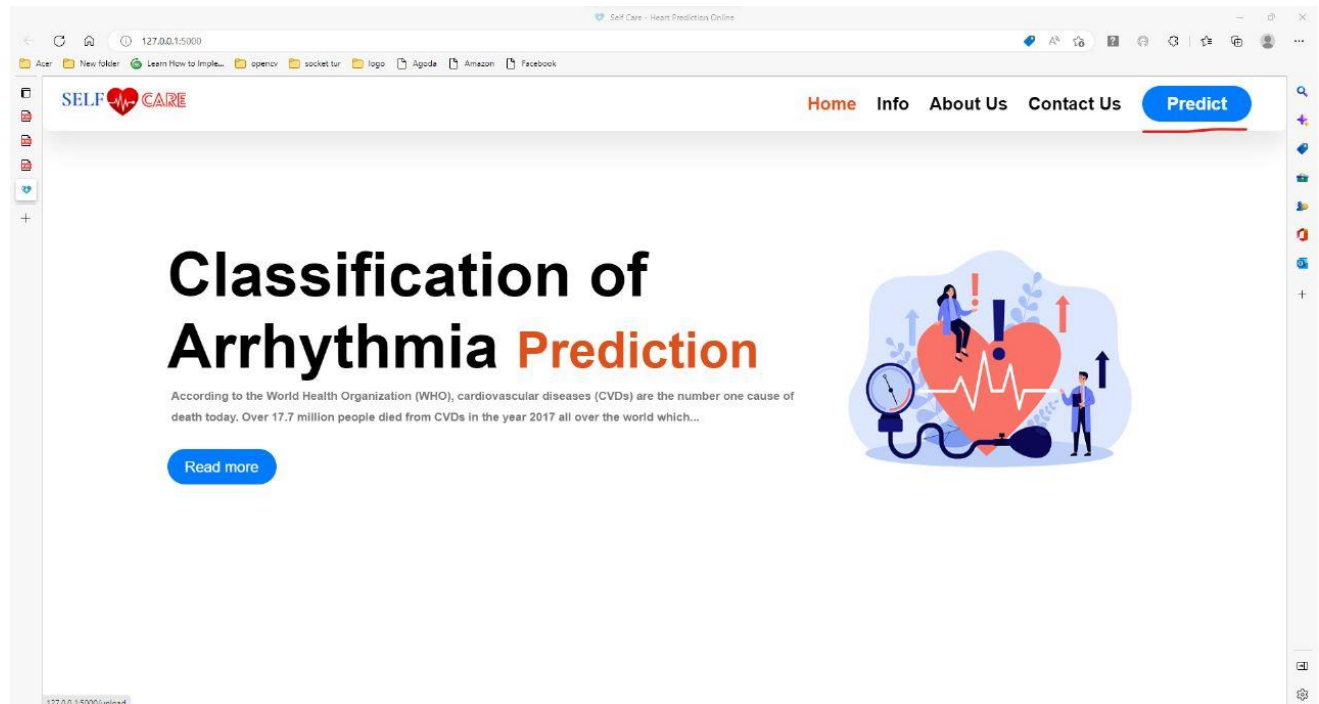
16  return render_template("index.html") #rendering index.html
17
18  @app.route("/info") #route to info page
19  def info():
20      return render_template("info.html") #rendering info.html
21
22  @app.route("/about") #route to about us page
23  def about_us():
24      return render_template("about.html") #rendering about.html
25
26  @app.route("/contact") #route to contact us page
27  def contact_us():
28      return render_template("contact.html") #rendering contact.html
29
30  @app.route("/upload") #default route
31  def test():
32      return render_template("product.html") #rendering contact.html
33
34  @app.route("/predict",methods=["GET","POST"]) #route for our prediction
35  def upload():
36      if request.method == "POST":
37          f = request.files["file"] # requesting the file
38          basepath = os.path.dirname(__file__) # storing the file directory
39          filepath = os.path.join(basepath, "uploads", f.filename) # storing the file in uploads folder
40          f.save(filepath) # saving the file
41
42          img = image.load_img(filepath, target_size=(64, 64)) # load and reshaping the image
43          x = image.img_to_array(img) # converting image to array
44          x = np.expand_dims(x, axis=0) # changing the dimensions of the image
45
46          preds = model.predict(x) # predicting classes
47          pred = np.argmax(preds, axis=1) # predicting classes
48          print("prediction", pred) # printing the prediction
49
50          index = ['Left Bundle Branch Block', 'Normal', 'Premature Atrial Contraction',
51                  'Premature Ventricular Contractions', 'Right Bundle Branch Block', 'Ventricular fibrillation']
52          result = str(index[pred[0]])
53          return result # returning the result

```

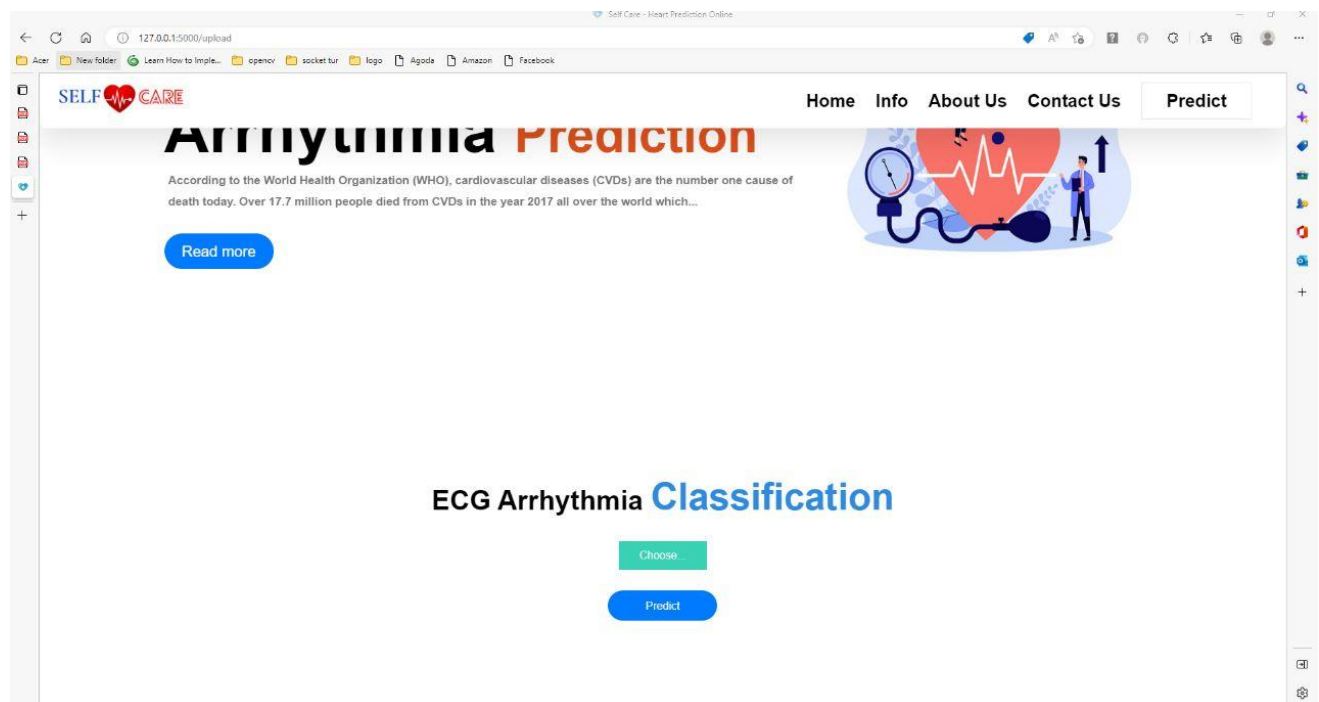
2022-11-17 10:15:14.574454: I tensorflow/core/platform/cpu\_feature\_guard.cc:193] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX AVX2  
 To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.  
 \* 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

**LOCAL HOST:**

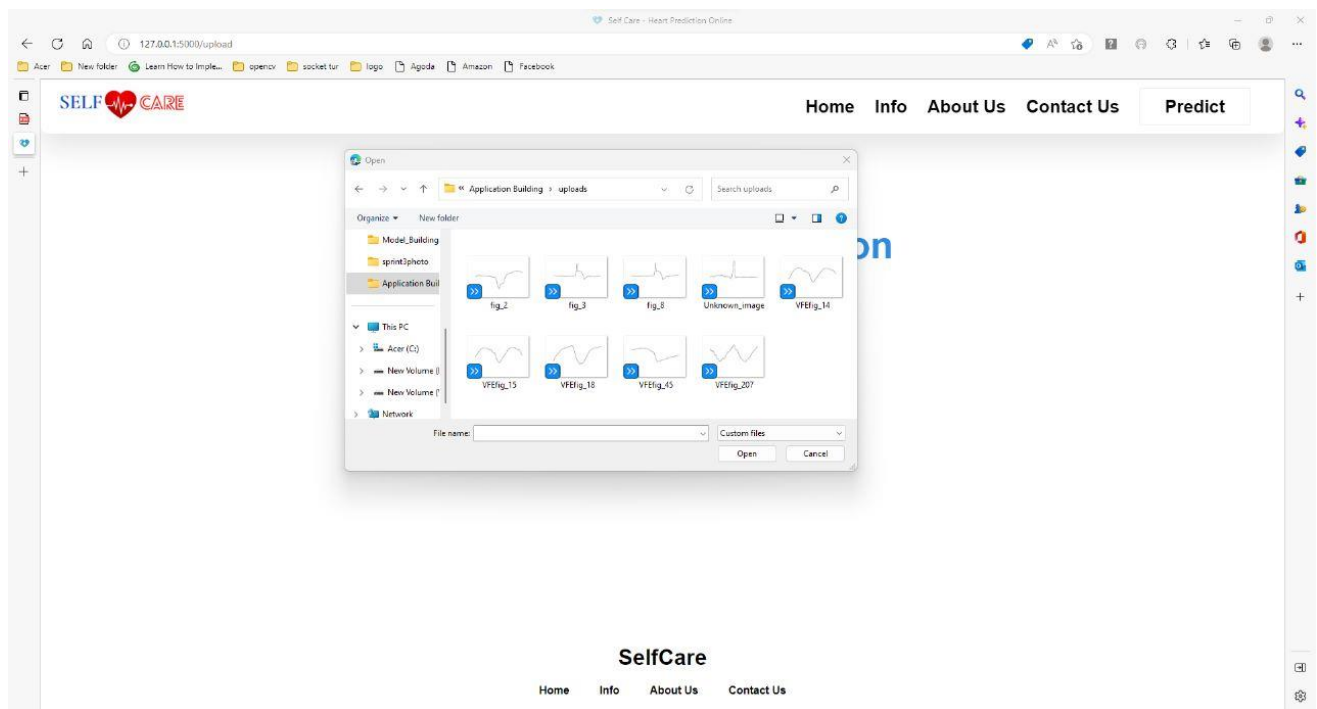
**CLICK PREDICT (SCREEN SHOT)::**



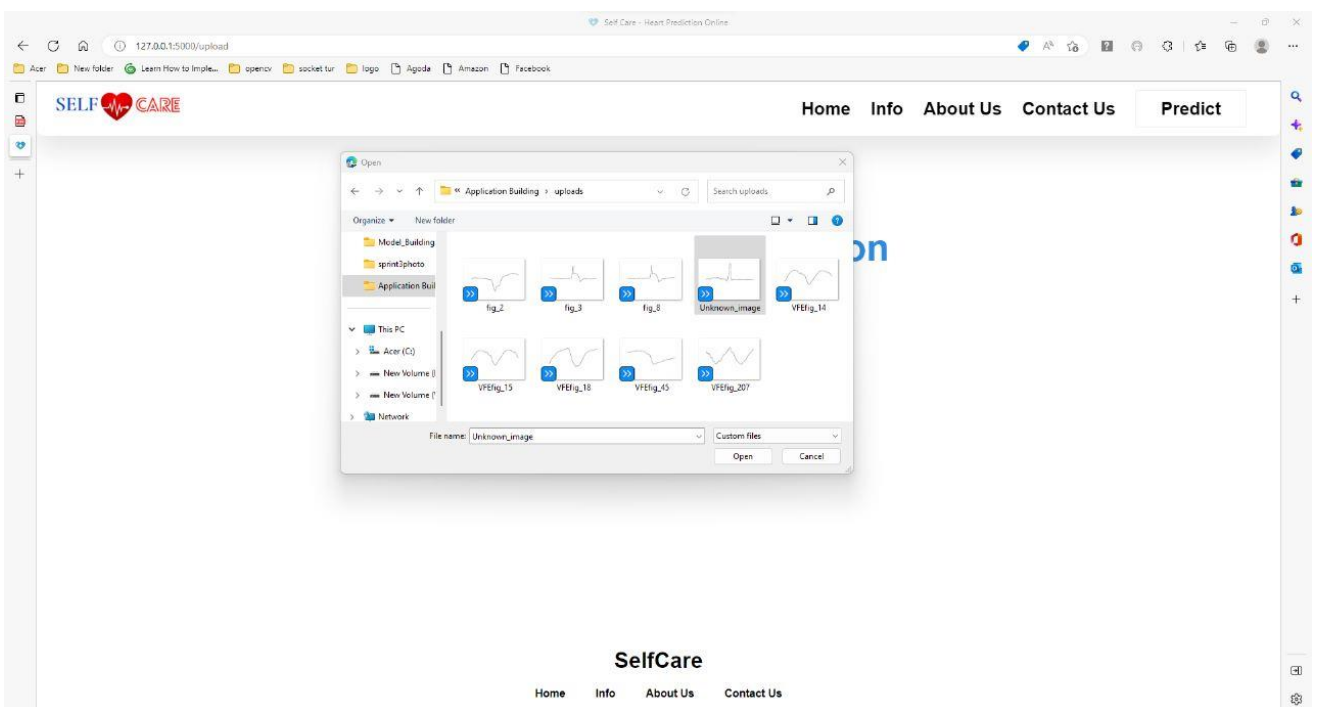
**CLICK CHOOSE BUTTON (SCREEN SHOT):**



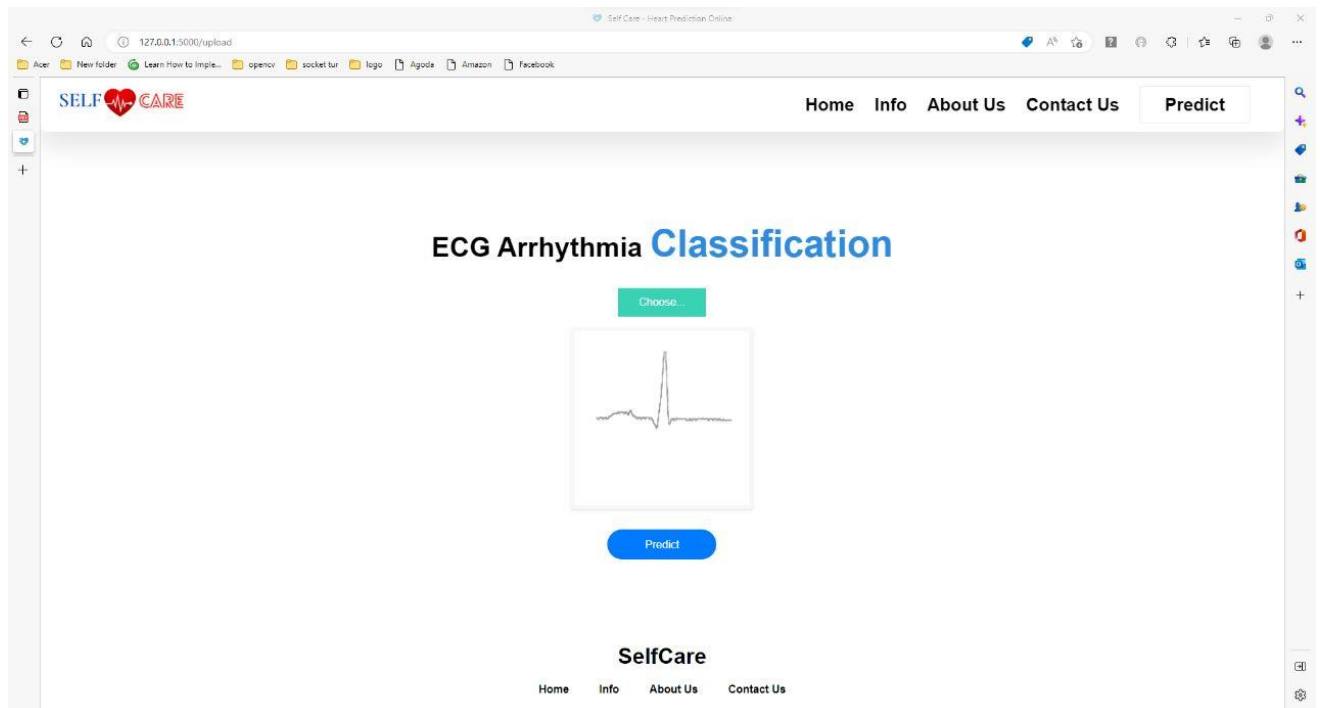
**SELECT ANY FILE (SCREEN SHOT):**



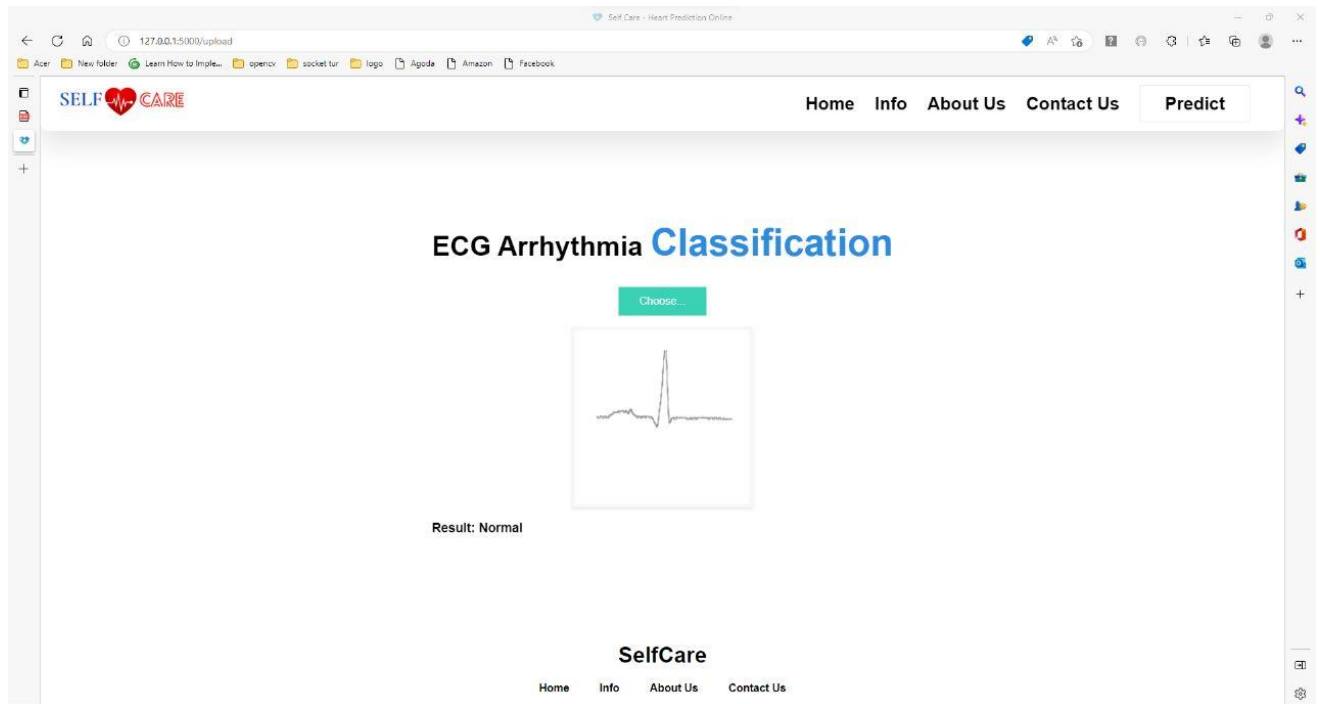
**CLICK ANY ECG PHOTO (SCREEN SHOT):**



**CLICK PREDICT BUTTON (SCREEN SHOT):**



**SHOW ON RESULT (SCREEN SHOT):**



**PREDICT THE CORRECT RESULT**

