SPRINT-3

APPLICATION BUILDING

HTML FILE

Date	15 November 2022
Team ID	PNT2022TMID26020
Project Name	Project - Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
Sprint	3

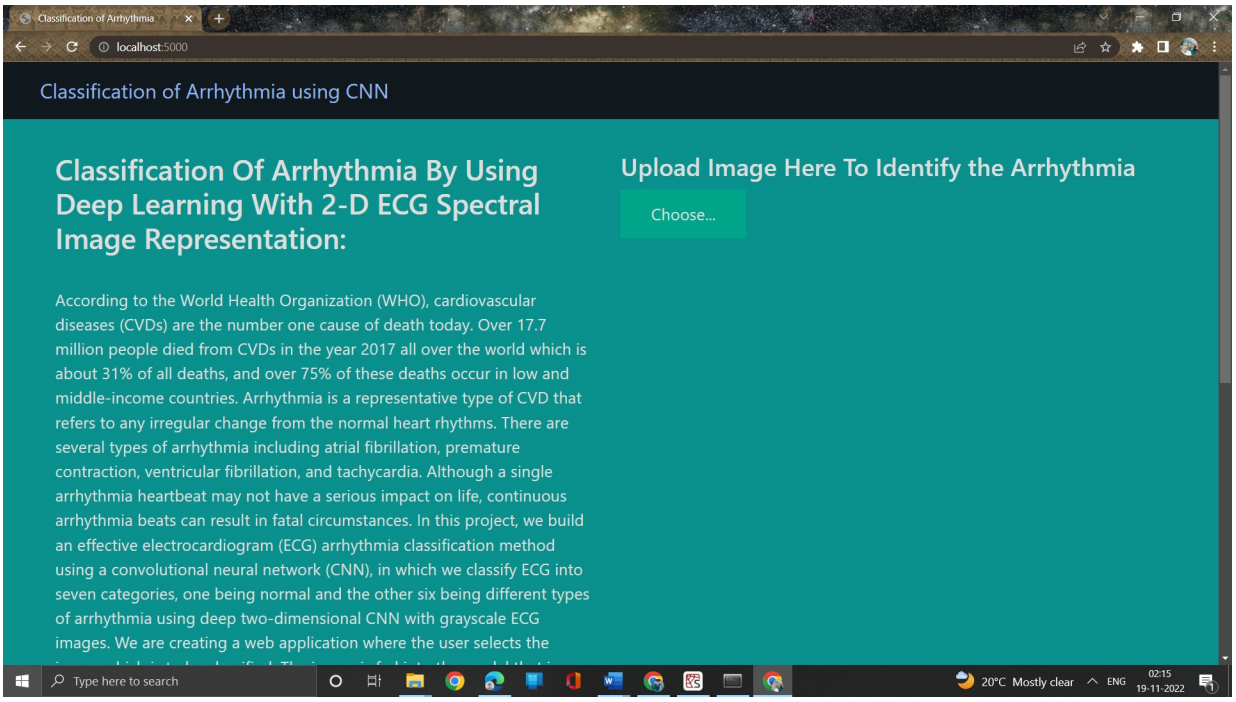
HTML CODE FOR HOME (INDEX PAGE):

```
import numpy as np
import os
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
from flask import Flask,render_template,request

app=Flask(__name__)

model=load_model('C:/Users/dharshini/Desktop/Sprint_3/Application building/ECG.h5')

@app.route('/')
def index():
    return render_template("index.html")

@app.route('/predict',methods=['GET','POST'])
def upload():
```

```
text=""
if request.method=='POST':
    f=request.files['image']
    basepath=os.path.dirname(__file__)
    filepath=os.path.join(basepath,'uploads',f.filename)
    f.save(filepath)
    img=image.load_img(filepath,target_size=(64,64))
    x=image.img_to_array(img)
    x=np.expand_dims(x,axis=0)
    pred=np.argmax(model.predict(x),axis=1)
    if pred==0:
        text="left Bundle Branch block"
        print(text)

    elif pred==1:
        text="Normal"
        print(text)

    elif pred==2:
        text="Premature Atrial Contraction"
        print(text)

    elif pred==3:
        text="Premature Ventricular Contraction"
        print(text)

    elif pred==4:
        text="Right Bundle Branch Block"
        print(text)
```

```
        else:
            text="Ventricular Fibrillation"
            print(text)

    return text
if __name__=='__main__':
    app.run(debug=False)
```

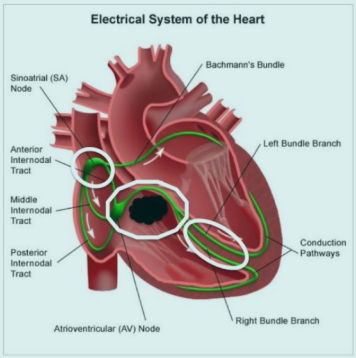
INDEX PAGE (SCREEN SHOT):



Classification of Arrhythmia

localhost:5000

Arrhythmias ... Why?



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