SPRINT-3

APPLICATION BUILDING

Build The Python Code

Date	19 Nov 2022
Team ID	PNT2022TMID01315
Project Name	Classification of Arrhythmia by
-	Using Deep Learning with 2-D
	ECG Spectral Image
	Representation

Project Structure:



App_flask .py

```
import os
import numpy as np
from flask import Flask, request, render template
from tensorflow.keras.models import load model
from tensorflow.keras.preprocessing import image
app = Flask( name )
model=load model('ECG.h5')
@app.route('/')
def about():
    return render template("about.html")
@app.route('/about')
def home():
    return render template("about.html")
@app.route('/info')
def info():
    return render template("info.html")
@app.route('/upload')
def test():
    return render template("index6.html")
@app.route("/predict", methods=["GET", "POST"]) # route for
our prediction
def upload():
    if request.method == 'POST':
        f = request.files['file'] # requesting the file
        basepath = os.path.dirname('__file__')  # storing the
file directory
        filepath = os.path.join(basepath, "uploads",
f.filename) # storing the file in uploads folder
        f.save(filepath) # saving the file
        img = image.load img(filepath, target size=(64, 64))
        x = image.img to array(img)
        x = np.expand dims(x, axis=0)
        pred = model.predict(x)
        y pred = np.argmax(pred)
        print("prediction", y pred)
        index = ['Left Bundle Branch Block', 'Normal',
'Premature Atrial Contraction',
```

App_flask.py screenshot: