PROJECT DEVELOPMENT PHASE SPRINT- IV

Team ID	PNT2022TMID18693
Title	Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation

User Interface:

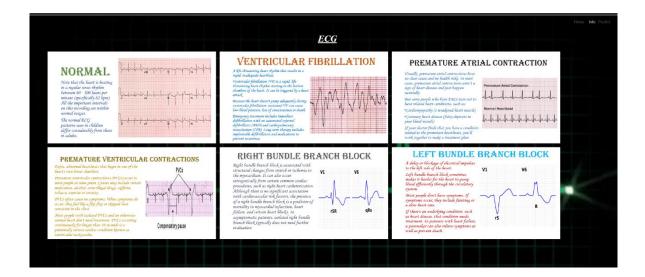
As a user, I can enter the webpage and view the homepage about the information about Electrocardiography (ECG) giving a clear perspective of the signals. I must also be able to comprehend all medical jargon related to Arrhythmia such as Left Bundle Branch Block , Right Bundle Branch Block , Premature Atrial Contraction , Premature Ventricular Contraction , Normal and Ventricular Fibrillation .

Home Info Predict

Screenshot:

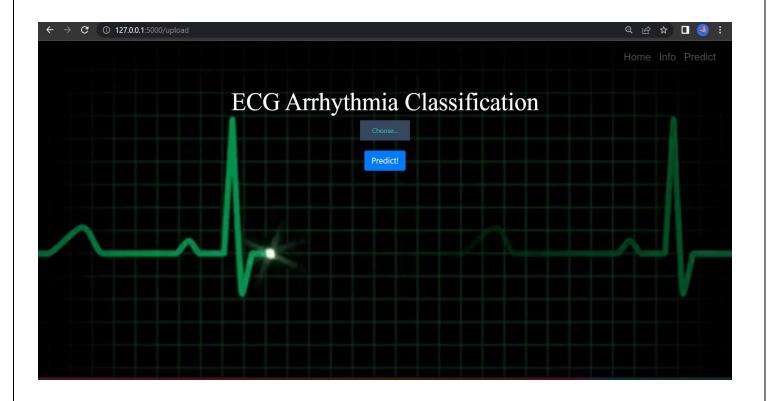
ECG arrhythmia classification using CNN According to the World Health Organization (WHO), cardiovascular diseases (CVDs) are the number one cause of death today. Over 17.7 million people died from CVDs in the year 2017 all over the world which is about 31% of all deaths, and over 75% of these deaths occur in low and middle income countries. Arrhythmia is a representative type of CVD that refers to any irregular change from the normal heart rhythms. There are several types of arrhythmia including atrial fibrillation, premature contraction, ventricular fibrillation, and tachycardia. Although single arrhythmia heartbeat may not have a serious impact on life, continuous arrhythmia beats can result in fatal circumstances. Electrocardiogram (ECG) is a non-invasive medical tool that displays the rhythm and status of the heart. Therefore, automatic detection of irregular heart rhythms from ECG signals is a significant task in the field of cardiology.

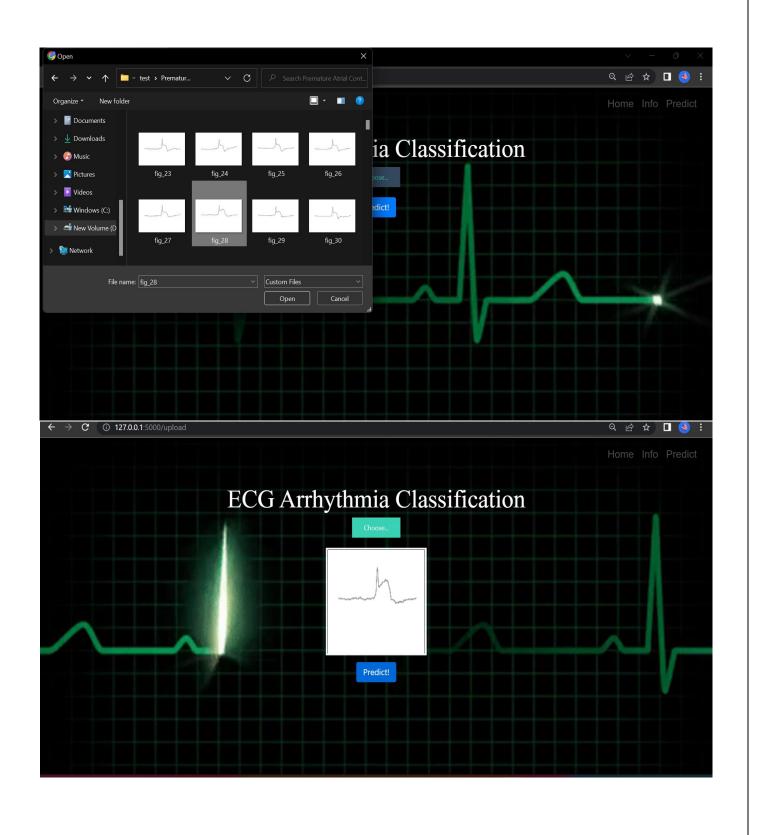
INFO PAGE:

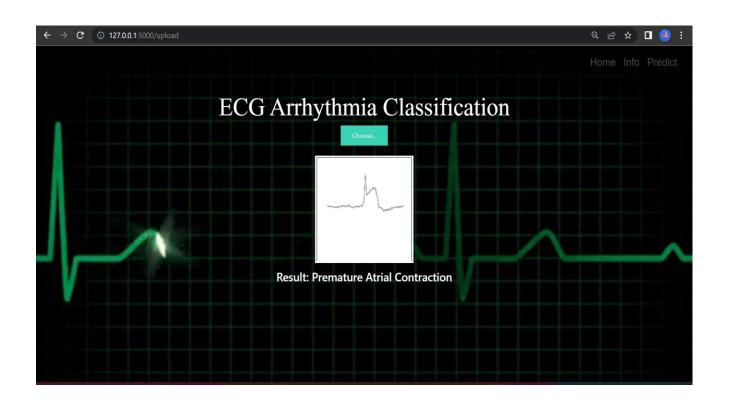


Predict:

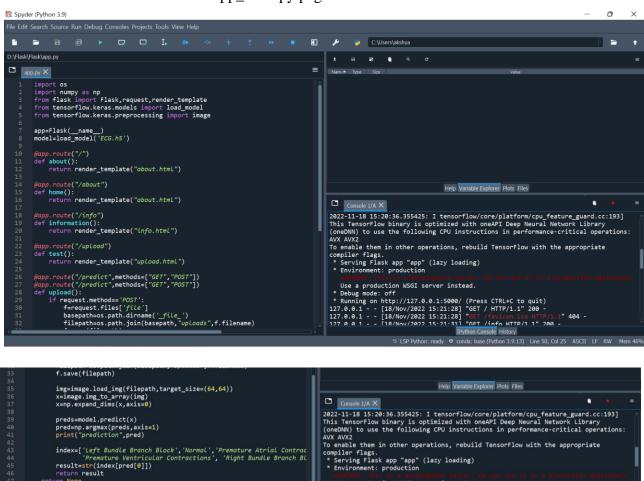
As a user I can choose which ECG image should be uploaded to check the type of Arrythmia .After prediction the type of Arrythmia is displayed to the user.







The HTML file used to build the app_flask.py page includes:







TheHTMLfile used to build the predicate.html

