SPRINT 4: Classification of Arrhythmia by Using Deep Learning With2-D ECG Spectral Image Representation

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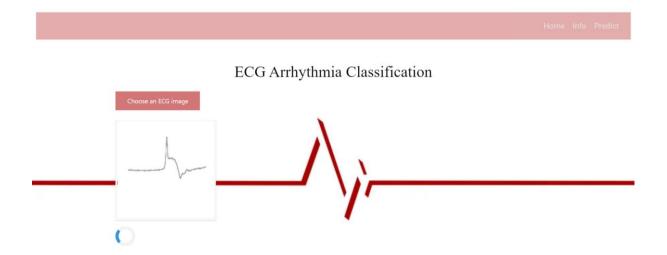
Code: Updated in GitHub in the Deliverables section in Sprint 4 folder.

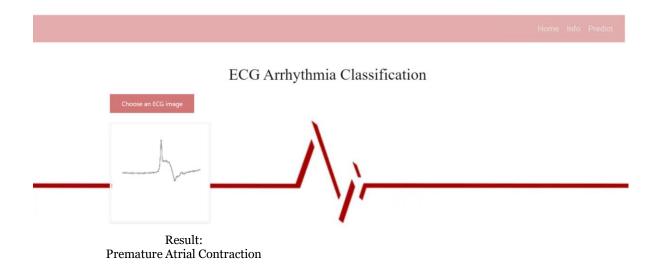
Description of USN and Screenshots:

USN-6:

As a user, I can upload an ECG image and view the result. The type of Arrhythmia such as Left Bundle Branch Block, Normal, Premature Atrial Contraction, Premature Ventricular Contractions, Right Bundle Branch Block and Ventricular Fibrillation is displayed.

Screenshot:





USN-7:

As a user, I can upload any ECG image and view the result. The algorithm is designed to denote the type of Arrhythmia such as Left Bundle Branch Block, Normal, Premature Atrial Contraction, Premature Ventricular Contractions, Right Bundle Branch Block and Ventricular Fibrillation.

The HTML file used to build the Info page includes:

```
    index.html ×

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TEMPLATES
                                           padding: 20px;
about.html
base.html
o index.html
                                        <div class="heading">
                                           ECG Arrhythmia Classification
o info.html
userimg.png
                                               Choose an ECG image
                                            <input type="file" name="image" id="imageUpload" accept=".png, .jpg, .jpeg">
                                        <button type="button" class="btn btn-primary btn-lg " id="btn-predict">Predict!</button>
OUTLINE
                                            <span id="result" style="font-size:17px;"> </span
</pre>
```

The Python code behind classification of Arrhythmia:

