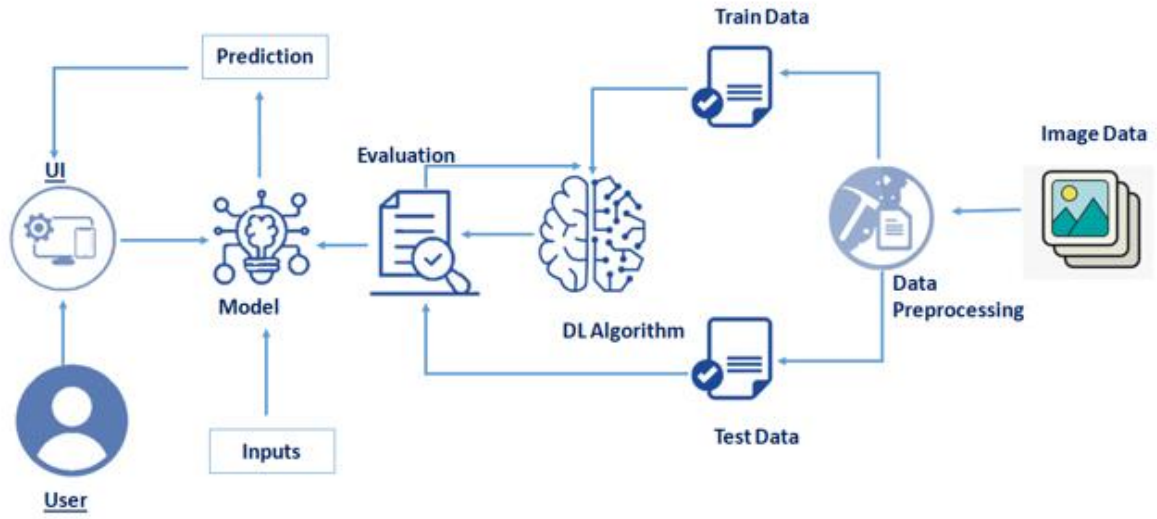
Project Design Phase-I
Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID23017
Project Name	Project - Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
Maximum Marks	4 Marks

Example - Solution Architecture Diagram:



The proposed solution will enable medical practitioners to rapidly identify the exact type of arrhythmia of the patient by using deep learning with 2-D ECG spectral image representation.

As shown in the above diagram, the user interacts with the software's user interface (UI) to upload a 2-D ECG spectral image of the patient.

The image is recognized and evaluated by the software's deep learning algorithm, which is previously 'trained' to identify critical aspects of the image needed to classify the specific type of arrhythmia and correctly do so.

Upon correct identification, the result which is the type of arrhythmia of the patient under diagnosis is displayed to the user through the software's UI.