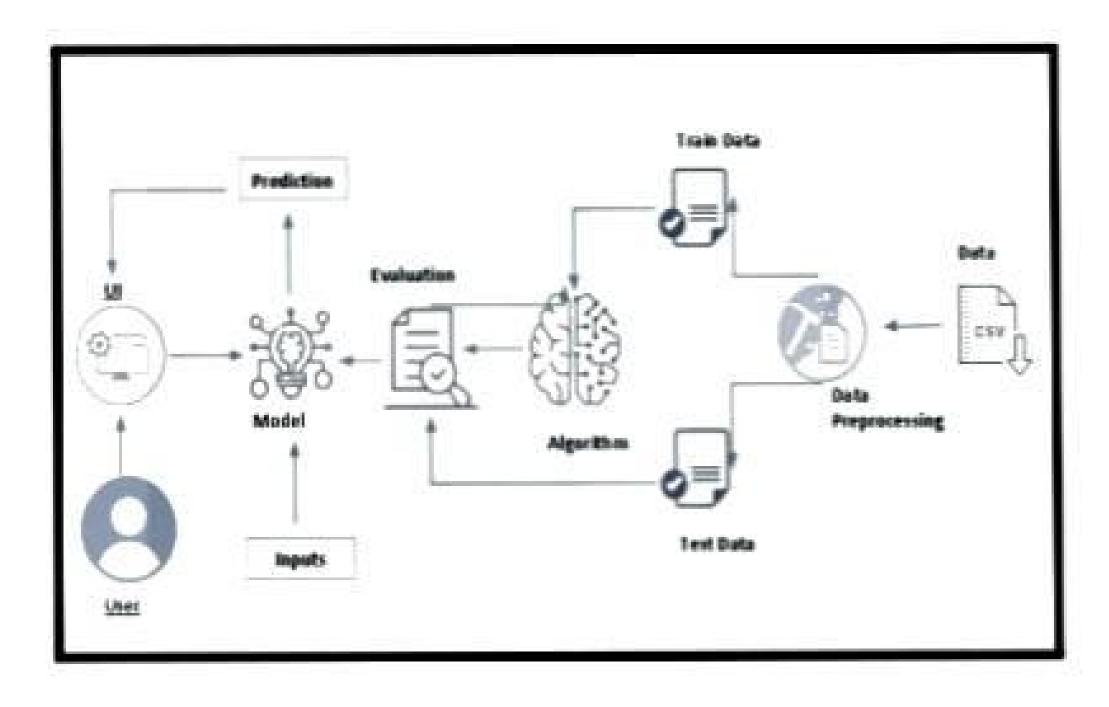
Early Prediction for Chronic Kidney Disease Detection: A Progressive Approach to Health Management

Chronic Kidney Disease (CKD) is a major medical problem and can be cured if treated in the early stages. Usually, people are not aware that medical tests we take for different purposes could contain valuable information concerning kidney diseases. Consequently, attributes of various medical tests are investigated to distinguish which attributes may contain helpful information about the disease. The information says that it helps us to measure the severity of the problem, the predicted survival of the patient after the illness, the pattern of the disease and work for curing the disease.

In todays world as we know most of the people are facing so many disease and as this can be cured if we treat people in early stages this project can use a pretrained model to predict the Chronic Kidney Disease which can help in treatments of peoples who are suffer from this disease.

Technical Architecture:



Project Flow:

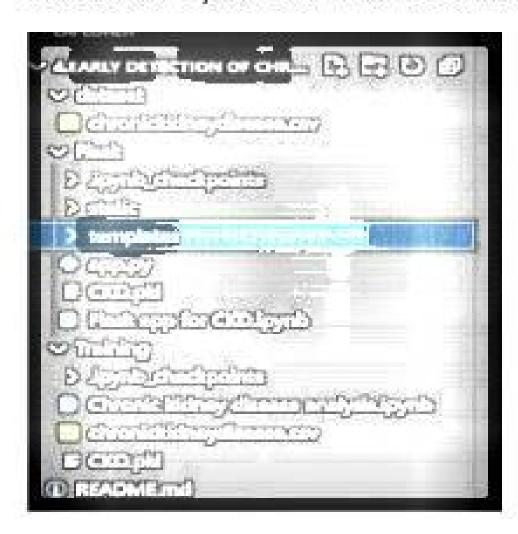
- User interacts with the UI to enter the input.
- Entered input is analysed by the model which is integrated.
- Once model analyses the input the prediction is showcased on the UI

To accomplish this, we have to complete all the activities listed below,

- Define Problem / Problem Understanding
 - Specify the business problem
 - Business requirements
 - Literature Survey
 - Social or Business Impact.
- Data Collection & Preparation
 - Collect the dataset
 - Data Preparation
 - Exploratory Data Analysis
 - Descriptive statistical
 - Visual Analysis
- Model Building
 - Training the model in multiple algorithms
 - Testing the model
- Performance Testing & Evaluate the results
 - Testing model with multiple evaluation metrics
 - Evaluate the results
- Model Deployment
 - Save the best model
 - Integrate with Web Framework
- Project Demonstration & Documentation
 - Record explanation Video for project end to end solution
 - Project Documentation-Step by step project development procedure

Project Structure:

Create the Project folder which contains files as shown below



We are building a flask application which needs HTML pages stored in the templates folder



and a python script app.py for scripting.

- CKD.pkl is our saved model. Further we will use this model for flask integration.
- Training folder contains a model training file.