



Early Detection of Chronic Kidney Disease using Machine Learning

Date	18 October 2022
Team ID	PNT2022TMID31803
Project Name	Project - Early Prediction of Chronic Kidney Disease using Machine Learning
Maximum Marks	4 marks

<div>SCENARIO</div> <div>Detection and diagnosis of Chronic Kidney Disease using Machine Learning</div>	<div></div> <div>Entice</div> <div>How does someone initially become aware of this process?</div>	<div></div> <div>Enter</div> <div>What do people experience as they begin the process?</div>	<div></div> <div>Engage</div> <div>In the core moments in the process, what happens?</div>	<div></div> <div>Exit</div> <div>What do people typically experience as the process finishes?</div>	<div></div> <div>Extend</div> <div>What happens after the experience is over?</div>
<div></div> <div>Steps</div> <div>What does the person (or group) typically experience?</div>	<div><div>Detecting of Chronic Kidney Disease using machine learning model or websites.</div><div>Enter the sugar values and blood pressure</div><div>Study the accuracy and detect the spread of disease.</div></div> <div><div>The people who are suffering from chronic kidney disease may use this model of detection.</div><div>The patient should enter the values of sugar level and blood pressure to detect the accuracy.</div><div>The patient can detect if the disease spread is in the early stage so that the patients can take treatment according to the spread of the disease.</div></div>	<div><div>The blood pressure levels and sugar levels are detected.</div><div>Accuracy of Chronic Kidney Disease is detected.</div></div> <div><div>The blood pressure and the sugar levels are detected for detection of chronic kidney disease.</div><div>After the entry of blood pressure and sugar level values the outcomes the accuracy of disease.</div></div>	<div><div>The patient Data may be wrong?</div><div>Undergo Treatments</div><div>Detect the accuracy and detect for side effects</div></div> <div><div>The patient blood and sugar level may be wrong due to this the accuracy may be wrong</div><div>The patient should undergo for the treatment based on the accuracy.</div><div>The patient should detect the presence of side effects.</div></div>	<div><div>The patient may feel happy</div><div>The patient may satisfy with the model.</div></div> <div><div>The patient may feel happy because if the spread is low the patient may happy.</div><div>This model may be used to early detection of chronic kidney disease.</div></div>	<div><div>Treatment can be based on the accuracy</div><div>Doctor's suggestions</div></div> <div><div>Based on the detection the patient can take treatment based on the accuracy</div><div>To take regular medications</div></div>
<div></div> <div>Interactions</div> <div>What interactions do they have at each step along the way?</div> <div><div>■ People: Who do they see or talk to?</div><div>■ Places: Where are they?</div><div>■ Things: What digital touchpoints or physical objects would they use?</div></div>	<div><div>Upload the inputs in the developed machine learning model in Google Colab and jupitar note</div><div>Web application for this detection of chronic kidney disease</div><div>Websites available for detection of chronic kidney analysis using machine learning.</div></div>	<div><div>The patients may take suggestion form doctors</div><div>The patient's database in hospitals while taking tests</div><div>Patients test reports</div></div>	<div><div>The patients may suffer from Kidney pain</div><div>High level of spreading of disease may lead to Kidney failure</div><div>Treatment should be done according to the spread of disease.</div></div>	<div><div>Feels satisfied with the accuracy and detection of result at the early stage.</div><div>It may feel happy if the disease spreaders can be prevented.</div><div>It may depress because if the spread is high the patient may die.</div></div>	<div><div>The patient asks suggestion from people who suffered from this type of disease.</div><div>Avoid all the bad habits</div></div>
<div></div> <div>Goals & motivations</div> <div>At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")</div>	<div><div>To Detect Chronic Kidney Disease at the early stage.</div><div>To save time.</div><div>To find using simple Data like blood pressure and sugar level.</div></div>	<div><div>To save the patient life who suffers from chronic kidney disease.</div><div>Useful in medical field Especially in Hospitals</div><div>To prevent Kidney failure of patients</div></div>	<div><div>Feels satisfied because of saving some patients life.</div><div>It can be used for business purpose also.</div><div>To detect in simpler method.</div></div>	<div><div>To make patient satisfaction.</div><div>To reduce mortality rate and cost of health.</div></div>	<div><div>It helps to see what we done.</div><div>It shows how it will be useful.</div></div>
<div></div> <div>Positive moments</div> <div>What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?</div>	<div>Early detection may help the patients to early treatment and save many lives.</div>	<div>The patient may feel satisfied and happy by using this model.</div>	<div>The patient feels productive and creative.</div>	<div>The patients are satisfied with the work</div>	<div>It makes patients free from frustration.</div>
<div></div> <div>Negative moments</div> <div>What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?</div>	<div>If the detection does not satisfy the patients.</div>	<div>If patients are affected with some side effect.</div>	<div>whether the cost paid for the test is really worthy or not.</div>	<div>Patients can suffer with pain of chronic kidney disease</div>	<div>Need to check the review for the usage of the chronic kidney disease software.</div>
<div></div> <div>Areas of opportunity</div> <div>How might we make each step better? What ideas do we have? What have others suggested?</div>	<div>It can be used in hospitals for detection of chronic kidney disease.</div>	<div>It can be used as an online detector of chronic kidney disease.</div>	<div>It can be used to develop an application for detection using this model.</div>	<div>It can be used as a training model for detection.</div>	<div>It can be used in testing model for chronic kidney disease detection.</div>