Early Detection of Chronic Kidney Disease using Machine Learning

Date	18 October 2022
Team ID	PNT2022TMID13778
Project Name	Project - Early Prediction of Chronic Kidney Disease using Machine Learning
Maximum Marks	4 Marks

SCENARIO

Detection and diagnosis of Chronic Kidney Disease using Machine Learning

Entice
How does someone initially become aware of this process?

Enter
What do people experience as they begin the process?

Engage
In the core moments in the process, what happens?

Exit
What do people typically experience as the process finishes?

Extend
What happens after the experience is over?

Steps
What does the person (or group) typically experience?

Entice	Enter	Engage	Exit	Extend
Detecting of Chronic Kidney Disease using machine learning model or websites.	The blood pressure levels and sugar levels are detected.	The patient Data may be wrong?	The patient may feel happy	Treatment can be based on the accuracy
Enter the sugar values and blood pressure	Accuracy of Chronic Kidney Disease is detected.	Undergo Treatments	The patient may satisfy with the model.	Doctor's suggestions
Study the accuracy and detect the spread of disease.		Detect the accuracy and detect for side effects		
The people who are suffering from chronic kidney disease may use this model of detection.	The blood pressure and the sugar levels are detected for detection of chronic kidney disease.	The patient blood and sugar level may be wrong due to this the accuracy may be wrong	The patient may feel happy because if the spread is low the patient may happy.	Based on the detection the patient can take treatment based on the accuracy
The patient should enter the values of sugar level and blood pressure to detect the accuracy.	After the entry of blood pressure and sugar level values the outcomes the accuracy of disease.	The patient should undergo for the treatment based on the accuracy.	This model may be used to early detection of chronic kidney disease.	To take regular medications
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.		The patient should detect the presence of side effects.		

Interactions
What interactions do they have at each step along the way?
- **People:** Who do they see or talk to?
- **Places:** Where are they?
- **Things:** What digital touchpoints or physical objects would they use?

Entice	Enter	Engage	Exit	Extend
Upload the inputs in the developed machine learning model in Google Colab and jupitar note	The patients may take suggestion form doctors	The patients may suffer from Kidney pain	Feels satisfied with the accuracy and detection of result at the early stage.	The patient asks suggestion from people who suffered from this type of disease.
Web application for this detection of chronic kidney disease	The patient's database in hospitals while taking tests	High level of spreading of disease may lead to Kidney failure	It may feel happy if the disease spreaders can be prevented.	Avoid all the bad habits
Websites available for detection of chronic kidney analysis using machine learning.	Patients test reports	Treatment should be done according to the spread of disease.	It may depress because if the spread is high the patient may die.	

Goals & motivations
At each step, what is a person's primary goal or motivation? ("Help me…" or "Help me avoid…")

Entice	Enter	Engage	Exit	Extend
To Detect Chronic Kidney Disease at the early stage.	To save the patient life who suffers from chronic kidney disease.	Feels satisfied because of saving some patients life.	To make patient satisfaction.	It helps to see what we done.
To save time.	Useful in medical field Especially in Hospitals	It can be used for business purpose also.	To reduce mortality rate and cost of health.	It shows how it will be useful.
To find using simple Data like blood pressure and sugar level.	To prevent Kidney failure of patients	To detect in simpler method.		

Positive moments
What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?

Entice	Enter	Engage	Exit	Extend
Early detection may help the patients to early treatment and save many lives.	The patient may feel satisfied and happy by using this model.	The patient feels productive and creative.	The patients are satisfied with the work	It makes patients free from frustration.

Negative moments
What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?

Entice	Enter	Engage	Exit	Extend
If the detection does not satisfy the patients.	If patients are affected with some side effect.	whether the cost paid for the test is really worthy or not.	Patients can suffer with pain of chronic kidney disease	Need to check the review for the usage of the chronic kidney disease software.

Areas of opportunity
How might we make each step better? What ideas do we have? What have others suggested?

Entice	Enter	Engage	Exit	Extend
It can be used in hospitals for detection of chronic kidney disease.	It can be used as an online detector of chronic kidney disease.	It can be used to develop an application for detection using this model.	It can be used as a training model for detection.	It can be used in testing model for chronic kidney disease detection.