

Project Initialization and Planning Phase

Date	10 July 2024
Team ID	SWTID1721205662
Project Name	Early Prediction of Chronic Kidney Disease Using Machine Learning
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

To address the challenges of early prediction and diagnosis of chronic kidney disease (CKD), it is essential to understand the specific issues faced by patients, healthcare providers, and researchers. Developing a problem statement that reflects these challenges helps in creating targeted machine learning solutions that can improve the early detection and management of CKD. This approach aims to enhance patient outcomes, reduce healthcare costs, and provide better tools for healthcare professionals.

I am	I'm trying to	But	Because	Which makes me feel
A Patient	Detect early signs of disease	current tests are expensive and not easily accessible	I live in remote area	anxious about my health and future

I am	I'm trying to	But	Because	Which makes me feel
A healthcare provider	Improve patient outcomes	the existing methods are time-consuming and not accurate	they rely on late-stage symptoms	frustrated and concerned about my patient's health

I am	I'm trying to	But	Because	Which makes me feel
A family member of patient	ensure my love one receives early intervention	the symptoms only become apparent in advance stages	we don't have regular access to specialized services	worried and hopeless

I am	I'm trying to	But	Because	Which makes me feel
A medical researcher	develop efficient and cost-effective diagnostic tool	current research methods are lengthy and resource intensive	funding and resources are limited	challenged and determined to find the solution

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a patient	detect early signs of chronic kidney disease	the current tests are expensive and not easily accessible	I live in a remote area with limited healthcare facilities	anxious about my health and future
PS-2	a healthcare provider	improve patient outcomes by predicting chronic kidney disease earlier	the existing methods are time-consuming and not very accurate	they rely on late-stage symptoms and extensive lab tests	frustrated and concerned about my patients' well-being

PS-3	a family member of a patient	ensure my loved one receives early intervention for chronic kidney disease	the symptoms are not apparent until the disease has progressed significantly	we don't have regular access to specialized healthcare services	worried and helpless
PS-4	a medical researcher	develop efficient and cost-effective diagnostic tools for chronic kidney disease	current research methods are lengthy and resource-intensive	funding and resources are limited	challenged and determined to find a solution