

Project Initialization and Planning Phase

Date	5 July 2024
Team ID	SWTID1720082525
Project Name	Early Prediction of Chronic Kidney Disease Using Machine Learning
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

A health insurance company's data analyst needs to improve early prediction of chronic kidney disease (CKD) among policyholders. Despite having access to extensive policyholder data, current risk assessment models lack sensitivity for early-stage CKD detection. This limitation hinders the company's ability to promote timely preventive care, potentially resulting in increased healthcare costs and poorer health outcomes for policyholders. The challenge lies in developing a more effective data utilization strategy, leveraging machine learning to identify subtle patterns indicative of early CKD risk.

I am	I'm trying to	But	Because	Which makes me feel
A health insurance company's data analyst	Develop a proactive approach to identify policyholders at high risk of developing CKD	Our current risk assessment models are not sensitive enough to accurately predict CKD in its early stages	We have a large amount of diverse data on our policyholders, but we're not effectively utilizing it to identify subtle patterns that might indicate early CKD risk	Concerned that we're missing opportunities to encourage preventive care and early intervention, potentially leading to higher healthcare costs and worse outcomes for our policyholders

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A health insurance company's data analyst.	Develop a proactive approach to identify policyholders at high risk of developing CKD.	Our current risk assessment models are not sensitive enough to accurately predict CKD in its early stages.	We have a large amount of diverse data on our policyholders, but we're not effectively utilizing it to identify subtle patterns that might indicate early CKD risk.	Concerned that we're missing opportunities to encourage preventive care and early intervention, potentially leading to higher healthcare costs and worse outcomes for our policyholders.