



Project Initialization and Planning Phase

Date	12 July 2024	
Team ID	SWTID1720083491	
Project Title	Early Prediction of Chronic Kidney Disease Using Machine Learning	
Maximum Marks	3 Marks	

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview		
Objective	The primary objective of this project is to develop a machine learning model to predict chronic kidney disease early	
Scope	The project comprehensively assesses and enhances the early prediction of chronic kidney disease process, incorporating machine learning for a more robust and efficient system.	
Problem Statement		
Description	Chronic kidney disease (CKD) is a serious condition that affects millions of people worldwide. Early detection of CKD is important because it allows for early intervention and treatment, which can help slow or prevent the progression of the disease	
Impact	A machine learning model for early prediction of CKD could have a significant impact on public health. By allowing for earlier detection and treatment, the model could help slow or prevent the progression of CKD and improve patient outcomes.	
Proposed Solution		
Approach	It involves training a model using machine learning algorithm on patient data to predict chronic kidney disease.	
Key Features	The model will be accurate and reliable in predicting CKD.The model will be easy to use by healthcare professionals.	





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Resource Requirements

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	CPU/GPU specifications, number of cores	T4 GPU		
Memory	RAM specifications	8 GB		
Storage	Disk space for data, models, and logs	512 GB SSD		
Software				
Frameworks	Python frameworks	Flask		
Libraries	Additional libraries	scikit-learn, pandas, numpy, seaborn, matplotlib		
Development Environment	IDE, version control	Jupyter Notebook, Git		
Data				
Data	Source, size, format	Skill Wallet(Google Drive), 400, csv		