Project Initialization and Planning Phase

Date	09 July 2024
Team ID	740660
Project Title	Evolving efficient classification patterns in Lymphography
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

The proposal report aims to improve the classification of lymphography data using machine learning, boosting efficiency and accuracy. It addresses diagnostic inefficiencies, promising better operations, reduced risks, and improved patient outcomes. Key features include a machine learning-based classification model and real-time decision-making support for healthcare professionals.

Project Overview	
Objective	The primary objective is to revolutionize the lymphography diagnosis process by implementing advanced machine learning techniques, ensuring faster and more accurate assessments.
Scope	The project comprehensively assesses and enhances the lymphography diagnosis process, incorporating machine learning for a more robust and efficient system
Problem Statement	
Description	Addressing inaccuracies and inefficiencies in the current lymphography diagnosis system, which adversely affect diagnostic accuracy and patient satisfaction.
Impact	Solving these issues will result in improved diagnostic accuracy, reduced risks of misdiagnosis, and an overall enhancement in the diagnostic process, contributing to patient satisfaction and healthcare success.

Proposed Solution	
Approach	Employing machine learning techniques to analyze and classify lymphography data, creating a dynamic and adaptable diagnostic support system.

Key Features	1. Implementation of a machine learning-based lymphography classification model. 2. Real-time decision-making support for quicker and more accurate diagnoses. 3. Continuous learning to adapt to evolving medical data and diagnostic standards.

Resource Requirements

Resource Type	**Description**	**Specification/Allocation**
Hardware		
Computing Resources	CPU/GPU specifications	T4GPUs
Memory	RAM specifications	8 GB
Storage	Disk space for data, models, and logs	1 TB SSD
Software		
Frameworks	Python frameworks	Flask
Libraries	Additional libraries	scikit-learn, pandas, numpy, matplotlib, seaborn
Development Environment	IDE, version control	Jupyter Notebook, Vs code
Data		

Data	Source, size, format	UCI Lymphography Dataset, CSV