Lymphography Classification Tool

Team ID: SWTID1720067156

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Project Initialization and Planning Phase

Team ID: SWTID1720067156
Project Title: Lymphography Classification Tool
Maximum Marks: 3 Marks

Project Proposal Report

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:

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

Resource Requirements

Resource Type	Description	Specification
Hardware	Computing Resources	4GB GPU
	Memory	8 GB RAM
	Storage	1 TB SSD
Software	Frameworks	Flask
	Libraries	scikit-learn, pandas, numpy, matplotlib, seaborn
	Development Environment	Vs Code
Data	Data Source, size, format	UCI Lymphography Dataset, 148 instances, CSV format