

Team – Ansh Pandey & Shajal

Project Proposal

Project Overview

Objective

The primary objective of this project is to develop a robust and accurate anemia detection system using machine learning. This system will allow users to input clinical data, and the application will predict anemia with high accuracy. The system will be user-friendly and accessible via a web-based interface.

Scope

The project will cover the development of a web application that allows users to register, log in, input patient data, and receive anemia predictions. The scope includes data preprocessing, model training, backend development with Flask, and frontend integration. The project will not cover real-time data analysis or the development of native mobile applications.

Problem Statement

Description

Accurately diagnosing anemia can be challenging for healthcare professionals, especially in resource-limited settings. Existing solutions often lack accuracy or user-friendly interfaces, leading to misdiagnoses and inadequate treatment.

Impact

Solving this problem will provide healthcare professionals and researchers with a reliable tool for diagnosing anemia, improving patient care, and enabling better research outcomes. Accurate anemia detection can also help in early intervention and treatment, reducing the risk of complications.