Project Initialization and Planning Phase

Date	5 July 2024
Team ID	739876
Project Title	FetalAI: Using Machine Learning To Predict And Monitor Fetal Health
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	Develop an AI-powered platform to enhance prenatal care by accurately detecting fetal anomalies and monitoring fetal development, providing timely insights to healthcare professionals and expectant parents.
Scope	Build an ML model for precise detection and monitoring of fetal anomalies to enhance prenatal care.
Problem Statement	
Description	Develop an AI platform for precise detection and monitoring of fetal anomalies.
Impact	Improve prenatal care and outcomes through early diagnosis and continuous fetal health monitoring.
Proposed Solution	
Approach	Utilize advanced machine learning algorithms and medical imaging integration and predict fetal health.
Key Features	Real-time monitoring, Accurate results, Detailed reporting, User-friendly interface.

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	1 TB SSD
Software		
Frameworks	Python frameworks	Flask
Libraries	Additional libraries	scikit-learn, pandas, numpy, matplotlib…
Development Environment	IDE	Jupyter Notebook
Data		
Data	Source, size, format	Kaggle Dataset, 228.72 kB, csv