



J.K.K.NATRAJA COLLAGE OF ENGINEERING AND TECHNOLOGY

TEAM MEMBERS

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GOKUL A

A decorative banner with a black outline and a textured, torn-paper effect. It is adorned with white line-art illustrations of leaves and flowers. The word 'MENTOR' is written in a bold, orange, sans-serif font across the center of the banner.

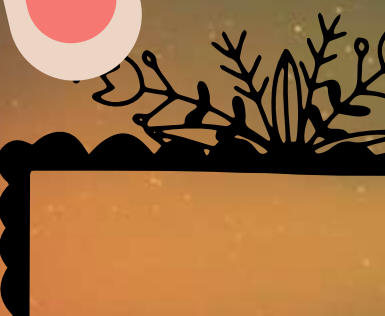
MENTOR

S.RAJKUMAR AP/ECE

AI-Based Diabetes Prediction System

Abstract

Develop an AI-powered diabetes prediction system that leverages machine learning algorithms to analyze medical data and predict the likelihood of an individual developing diabetes, providing early risk assessment and personalized preventive measures.



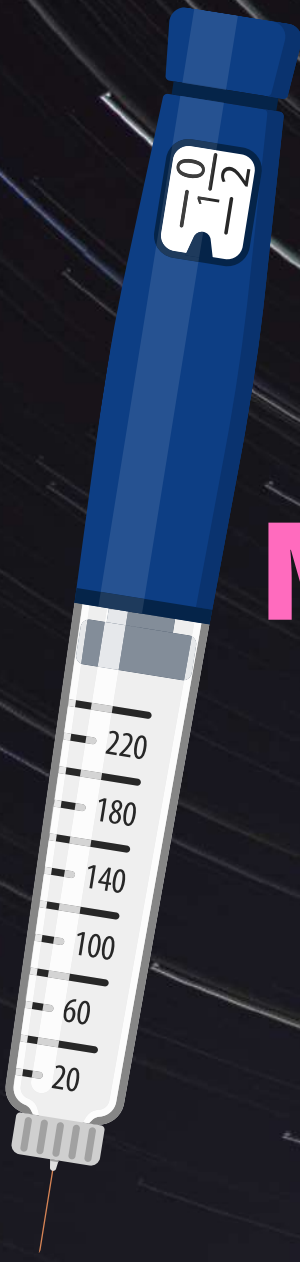
solutions

Data Collection and Integration

Explore the use of AI devices for continuous monitoring and integrate data from genetic tests for personalized predictions.

Machine Learning Models

Incorporate more advanced models like deep learning algorithms to improve prediction accuracy.



Real-time Monitoring

Develop a system for continuous monitoring, alerting, and intervention when risk factors change significantly.

User Interface

Implement more user-friendly and personalized interfaces, possibly using augmented reality (AR) or virtual reality (VR) for engaging and immersive experiences.



Privacy and Security:

Stay updated with evolving data protection regulations and incorporate advanced encryption methods and decentralized data storage using blockchain.

Research and Development:

Invest in ongoing research to stay at the forefront of technological advancements in the field.

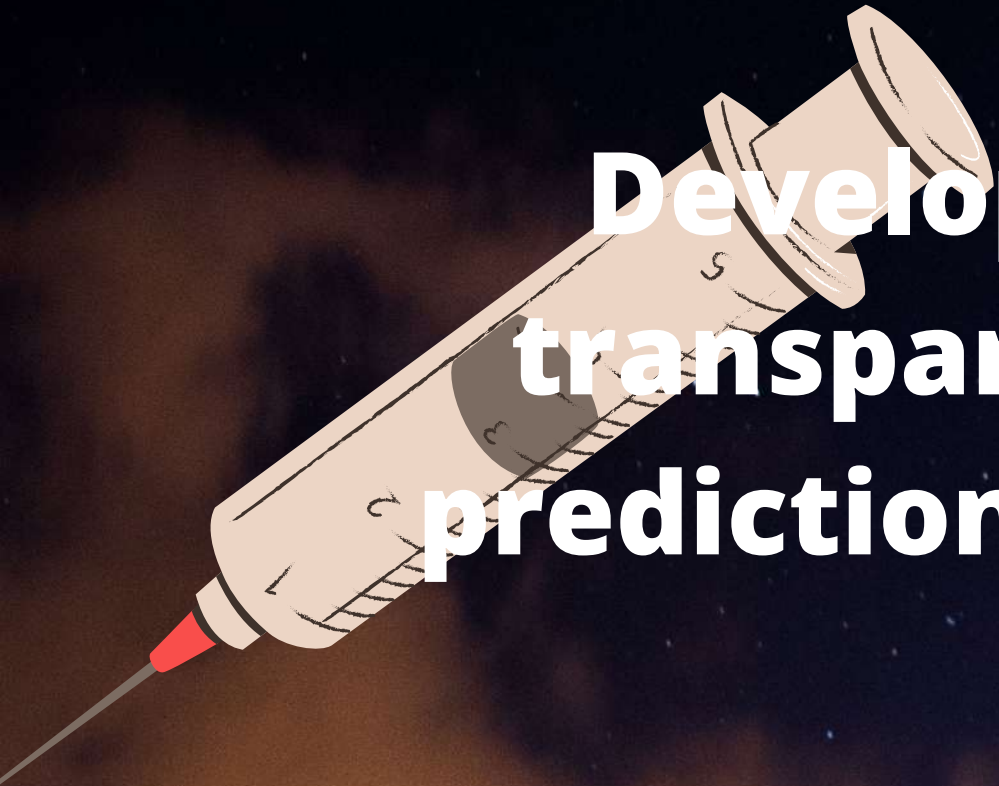


AI Explainability and Transparency:

Develop techniques to make AI models more transparent and provide detailed reasoning for predictions, which is crucial for gaining user trust.

Partnerships and Collaborations:

Collaborate with a wide range of organizations, including pharmaceutical companies, research institutions, and health insurance providers for a comprehensive ecosystem.



Thank you!