

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)



Hormis Nagar, Mookkannoor PO, Angamaly, Kochi
Accredited by NAAC with 'A+' Grade

DEPARTMENT OF COMPUTER APPLICATIONS

SYNOPSIS OF THE MAIN PROJECT

Name of the Student	SANDRA VIJUMON
Batch & Roll Number	MCA B BATCH 40
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Name of Project Guide	Dr.Deepa Mary Mathews
GitHub ID	https://github.com/Sandravijumon
Project Title	CiviGuard – A Citizen Alert System
Area of the Project	Web Development and Machine Learning
Date of Submission	09/01/2025
<p>Description of Project:</p> <p>This project focuses on developing a robust Citizen Alert System to enhance public safety and convenience by providing timely updates on critical issues. The system delivers health emergency alerts like disease outbreaks, vaccination camps, and health checkup drives, as well as traffic and transportation updates on road closures, diversions, and disruptions in public transport. Key technical features include a dashboard for administrators to manage alerts efficiently, data security and privacy measures to protect user information, and analytics tools for tracking alert effectiveness and generating insights. The system ensures accessibility with voice and visual notifications for impaired users and offline functionality via SMS or calls for areas with low internet connectivity. Designed for scalability, the system can handle a large user base during emergencies and supports crisis mode activation for rapid deployment of mass alerts. This comprehensive and user-centric approach aims to create a safer and more informed community. Integrates machine learning to forecast disease outbreaks, traffic congestion, and natural disasters, enabling proactive emergency response.</p>	
Front End & Back End Tools	Frontend: React Backend: Express.js, Node.js, Python Database: MongoDB, Machine Learning

