SAKSHI AS

UG STUDENT

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About Me

I am a Bachelor of Engineering (BE) student in Computer Science with a passion for problem-solving and technology. As an NCC cadet, I have developed strong discipline, leadership, and teamwork skills. I enjoy taking on challenges, learning new concepts, and applying my knowledge to real-world problems. I am eager to grow and contribute in a dynamic environment.

Skills

- Programming Languages-C,C++
- Mobile App Development-Flutter
- Web Development-HTML,CSS,JS
- Database-MySql
- Tools & IDE's-Android Studio,VS Code
- Teamwork and Collaboration
- Time Management and Adaptability

Education

- Kroot Memorial School 2012-2021
- Vision Girls PU College 2021 - 2023
- RV College of Engineering 2023-Ongoing

Project

Clog Detection System in Drainage

The Clog Detection System uses ultrasonic sensor to detect blockages in drainage.It helps prevent waste overflow onto roads,especially during the rainy season,and reduces the need for maunal inspection,lowering infection risks for workers.

Real-time Healthcare assistance during emergency

DTL App is a real-time health care assistance system that helps users locate the nearest hospital using OpenStreetMap, request an ambulance, and send latitude & longitude to the hospital dashboard. It also includes emergency contacts, health profiles, and assistance request features.

Smart-Agri Fertilizer recommendation and crop-detection

This project is an intelligent crop and fertilizer recommendation system that helps farmers make data-driven decisions. Based on user-input factors like soil type, temperature, humidity, and rainfall, the system:

- Detects the current crop growing in the field.
- Recommends the best-suited fertilizer for improved yield.
- Suggests the most suitable crop for cultivation based on environmental conditions

File System Implementation with remote access

This project implements a file system with remote access, allowing users to store, retrieve, and manage files over a network. It provides a seamless way to access and modify files remotely, ensuring data security and efficient file handling.

Intrusion detection of networks using GRAPHSAGE and Casual Sampling

An intrusion detection system using Graph Neural Networks (GNNs) and causal sampling to detect malware, IoT attacks, phishing, DDoS attacks, and a global model for all threats. Built with PyTorch Geometric, it processes CICIDS2017 network traffic data into graphs, achieving robust performance.

Smart Home Automation System

Developed a cost-effective IoT-based smart home automation system using the ESP32 microcontroller. Integrated sensors, actuators, and cloud services to enable remote control and monitoring of household devices (e.g., lights, fans, and security cameras) via smartphone or web interfaces. Enhanced energy efficiency, security, and user convenience through real-time environmental monitoring and automated responses. Demonstrated scalability and affordability, providing a foundation for future IoT innovations in smart living.

Human Pose Detection System

Developed a human pose detection system for football using YOLOv8 and MediaPipe. Implemented real-time player tracking and pose estimation to analyze movements and enhance performance evaluation. Integrated computer vision techniques to process video feeds, providing actionable insights for training and strategy optimization.