

Sakshi A S

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Education

R V College of Engineering

BE in Information Science and Engineering

CGPA: 8.80

Aug 2023 - 2027

Bengaluru, Karnataka

Vision Girls PU College

PUC - PCMC

Percentage: 95.3

Sep 2022 - March 2023

Bengaluru, Karnataka

Relevant Coursework

- Data Structures
- Data Science
- Operating Systems
- Algorithms Analysis
- Web Development
- Computer Networks

Projects

Real-time Healthcare assistance during emergency | *HTML, CSS, JavaScript, OpenStreetMap, Leaflet.js, Geolocation API, Firebase*

- Developed a real-time healthcare assistance web app using **HTML, CSS, JavaScript**, and **Leaflet.js** to locate the nearest hospital and request ambulances with live location sharing.
- **Integrated user-centric modules** for emergency contacts, health profile management, and assistance requests to streamline emergency communication.
- **Implemented offline data handling** via **LocalStorage** and planned real-time integration with **Firebase** for future scalability.

Intrusion detection of networks using GRAPHsAGE and Casual Sampling | *Python, PyTorch, PyTorch Geometric, scikit-learn, pandas, numpy, networkx, CICIDS2017 dataset.*

- Developed a GraphSAGE-based intrusion detection system to identify threats such as malware, IoT attacks, phishing, and DDoS from network traffic graphs.
- Modeled CICIDS2017 data as graphs using k-nearest neighbors with cosine similarity to capture relationships between entities.
- Utilized Python with PyTorch Geometric, pandas, numpy, and scikit-learn for model training, preprocessing, and evaluation.

Smart Home Automation System | *ChatGPT said:ESP32/ESP8266, Blynk app, Arduino IDE, ultrasonic sensor, IR sensor, LDR sensor, water level sensor, WiFi, jumper wires, relay module.*

- Built a smart home automation system using ESP32/ESP8266 and Blynk for remote control of devices over WiFi.
- Integrated multiple sensors for security, automation, and resource management with real-time monitoring.

Technical Skills

Languages: Python, C, C++, HTML/CSS, JavaScript, R-Language, Matlab

Tools and Frameworks: Git, GitHub, VS Code, Cursor AI, Firebase, Android Studio, Flask, React, Node.js

IOT: Arduino, Thingspeak, Blynk, ESP

Certifications

- **HackXerve - VVCE, Mysuru** ([Certification](#))
- **Data Science - NPTEL** ([Certification](#))
- **NCC- B certification** ([Certification](#))

Extracurricular Activities

- NCC – Represented Bangalore 'A' Group in Kartavyapath during Republic Day Camp (RDC)
- RVCE Athletics Team – Represented at VTU level in cross country and track events