Akarshan Ghosh

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Summary!

An adept full-stack developer with proficiency in both frontend and backend development, coupled with a strong passion for machine learning and ethical hacking.

Technical Skill

- **Languages:-** Python,C
- **Frontend:-** JavaScript, React,js.
- **Backend:-** Django, Node.js,Express.js
- **Database:-** mySql, MongoDB
- **DevOps:-** AWS

Experience

Intern, IIT Guwahati – TIDF,   June 2024 – July 2024

- Build a flood monitoring system that monitors the water level to alert the user using NodeMCU ESP8266, GSM, and sonar sensor
- I proficiently managed programming for databases and websites using JavaScript, Django, SQL, and Python

Projects

Flood monitoring system webapp   github Link

- I have created a web application using the Django framework.I developed a web app using Django as a framework.
- Frontend development using Javascript and Tailwind css interactive, and responsive user interface.
- Backend development using Python and Django to handel API integration and database operations.
- Database management utilized SQL3 as a database to store to manage and store water level and user data
- Tools Used: Javascript, Tailwind CSS, python, Django, thingspeak, SQL

IoT based flood monitoring system

- Developed a IoT based flood monitoring prototype using Node MCU ESP8266 microprocessor, sonar sensor and GSM.
- The sonar sensor used to measured the data. The data is then process through microprocessor.
- Then the process data is send to Thingspeak Cloud using GSM WIFI module
- The Thingspeak store the process data and then the data is display in our website using API
- Tools Used: Solar panel, Solar charge controller, Embedded C, Node MCU ESP8266, Sonar Sensor, GSM, Thingspeak

Education

Girijananda Chowdhury University, Btech in Electronics and Communication   Sept 2022 – May 2026
Engineering

Kendriya Vidyalaya Lumding, Completed my Higher Studies   May 2019 – March 2021