Unnati Singh

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Education

Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha   **2021 - 2025**
B.Tech in Computer Science & Engineering

Coursework

Relevant Courses: Computer Networks, Operating Systems, Database Management Systems, Data Structures and Algorithms, Software Engineering, Artificial Intelligence

Projects

Public queue management and monitoring   **Source Code**

- Developed an algorithm to detect individuals and determine their alignment with a queue using heap area points. This provided real-time insights into queue formation and management.
- Implemented a feature to identify and encircle outliers, i.e., individuals not adhering to the queue. This helped in monitoring public adherence to queue norms and facilitated efficient crowd management.

Disaster Prediction and Emergency Resource Locator   **Source Code**

- Developed a system capable of predicting disasters on a scale of 1 to 5, indicating the severity of the disaster. The system was designed to provide real-time updates and alerts to help communities prepare and respond effectively.
- The system was integrated with a feature to identify and provide the nearest locations of essential services such as hospitals and police stations based on the severity of the disaster. This helped in efficient resource allocation and quick response times during emergencies.

Real-time Driver Monitoring and Alert System   **Source Code**

- Developed a system designed to monitor and ensure the safety of truck drivers. The system was capable of detecting if the driver was under the influence of alcohol or not operating the vehicle due to other reasons such as smoking.
- The system was equipped with real-time monitoring features to detect irregularities in the driver's behavior. It could alert relevant authorities or backup drivers in case the primary driver was found to be incapable of operating the vehicle safely.

Technical Skills

Languages: Python, Java, C++, JavaScript
Backend: Django, Node.js, Express.js
Frontend: React, TailwindCSS, HTML, CSS, Bootstrap
Clouds & Databases: AWS, PostgreSQL, MongoDB
Developer Tools: Postman, VS Code, GitHub, Xcode

Achievements

- Secured a position among the Top 100 students in the state in the CBSE Class 10th Board Examinations.

Certifications

- Earned a certification in SQL at an intermediate level from Hackerrank, highlighting a strong understanding of database management and manipulation.
- Acquired the Problem Solving Basic Certification from HackerRank, demonstrating fundamental problem-solving abilities using various programming languages.
- Secured the Problem Solving Intermediate Certification from HackerRank, reflecting a strong ability to solve complex problems and showcasing advanced computational thinking skills.