Aksh Patel

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Education

Nirma University   **2023 − 2027**

B.Tech. in Computer Science & Engineering (Minor: Cyber Security)   *Ahmedabad, Gujarat*

SGPA (5th Semester): 9.33/10

CGPA (Till 5th Semester): 8.64/10

Technical Skills

Programming Languages: C++, Python
Frontend: HTML, CSS, JavaScript, React.js, Tailwind CSS
Backend: Node.js, Express.js, REST APIs, Socket.IO
Databases: MongoDB, MySQL
Core Computer Science: DSA, OOP, DBMS, OS, Computer Networks
Developer Tools & Platforms: Git, GitHub, Linux , Docker, Postman

Projects

AI-Driven Real-Time Threat Detection System

- **Tech Stack:** Python, Scikit-learn, Pandas, React.js, Chart.js, Node.js, Express.js, MongoDB.
- Built a real-time threat detection system that continuously analyzes security logs to identify suspicious activity.
- Processed raw network data and applied machine learning model to detect anomalies and classify attack types.
- Assigned risk scores to highlight high-impact threats with help of gemini and trigger automated email alerts.
- Developed a React-based dashboard with a global attack map for clear and intuitive threat monitoring.

Real-Time Collaborative Code Editor   🌐 **Live Demo**

- **Tech Stack:** React.js, Node.js, Express.js, Socket.IO.
- **External Libraries :** CodeMirror, UUID, React Hot Toast, React Avatar.
- Built a real-time code editor where multiple users can join the same room and edit code together with live updates.
- Used Socket.IO to handle real-time communication and keep code changes synchronized across all connected users.
- Implemented a Node.js and Express backend to manage rooms, user connections, and collaboration events.
- Created a simple and responsive React interface focused on smooth collaboration and ease of use.

Positions of Responsibility

Software Developer   **2024 − Present**

Cyber Security Club, ITNU   *Ahmedabad, Gujarat*

- Developing and maintaining the club website.
- Actively contributing to technical events & workshops.

Achievements

Codeforces (**Aksh15**): Max Rating 1332 (Pupil).

LeetCode (**aksh_158**): Max Rating **1717** (Top 11.75%).

Secured Top 5 position (out of 700+ participants) at Intellihack (DAU), a national-level cybersecurity hackathon.