Sahil Sharma

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SUMMARY

Software engineering student with strong problem-solving skills, hands-on experience in full-stack development, SQL, and debugging. Adept at building scalable applications, writing clean code, and rapidly learning new technologies to meet business needs.

EDUCATION

Graphic Era Deemed To Be University, Dehradun (Uttarakhand, IN)   **Aug 2023 – Present**
B.Tech in Computer Science & Engineering   *CGPA: 9.0/10*

Nav Adarsh School, Kathua (J&K, IN)   **Apr 2021 – Mar 2022**
Intermediate (Physics, Chemistry, Mathematics) — Grade 12   *90.4%*

PROJECTS

E-Commerce Platform with Customer Segmentation ☑   **| *Flask, Python, MySQL, K-Means***   *Nov 2025*
- Developed backend REST APIs using Flask and implemented SQL joins/transactions to maintain data consistency across modules.
- Built a full-stack e-commerce platform with secure auth, product catalog, and transactional **MySQL** storage, supporting **500+ simulated users**.
- Implemented **K-Means** segmentation on **10,000+** behavior and purchase records, discovering **4 customer groups** for targeted recommendations.
- Designed a business dashboard to visualize **segments**, **sales trends**, and **purchase patterns**, explaining clustering outcomes.

Synthetic IoT Data Generation & IDS using Gen AI ☑   **| *Python, TensorFlow, TimeGAN, LSTM*** *Feb 2025*
- Expanded IoT intrusion dataset by **200%** (50K → 150K samples) via **TimeGAN** traffic generation.
- Balanced rare attack classes, improving generalization across unseen intrusion scenarios.
- Built an **LSTM-based IDS** trained on synthetic data with real-time detection capability.
- Reached **98% accuracy** and **95% recall**, integrated with a live monitoring dashboard.
- Performed integration testing and resolved **10+** bugs across authentication, database queries, and user workflows.

TECHNICAL SKILLS

Programming: Python, C/C++, Java, SQL, JavaScript
Software Engineering: OOP, SDLC, Agile/Scrum, REST APIs, Modular Code Design, Debugging, Unit Testing
Web & Backend Development: HTML, CSS, Node.js, Express.js, Flask, React.js
Databases: MySQL, MongoDB, SQL Queries (Joins, Transactions, Optimization)
Tools & Platforms: Git, GitHub, VS Code, Linux, Jupyter Notebook
Automation & Testing: Selenium (Basics), Test Case Design, CI/CD (GitHub Actions)
Cloud & DevOps (Basics): AWS Cloud Fundamentals, Containerization Concepts

ACHIEVEMENTS

☑ | Solved 800+ Data Structures & Algorithms problems | C++, DSA, Problem-Solving

☑ | Secured 2nd Runner-Up in National-Level CTF Competition | Cybersecurity, Ethical Hacking

CERTIFICATIONS & COURSEWORK

- **OCI 2025 Certified AI Foundations Associate** | 2025 ☑ | Cloud, AI, ML, Model Deployment
- **IBM — Getting Started with Artificial Intelligence** | Nov 2025 ☑ | AI, ML, Foundations
- **AWS — Cloud Quest: Cloud Practitioner** | Apr 2025 ☑ | AWS, Cloud Fundamentals
- **HackerRank — Problem Solving (Basic + Intermediate)** | Jun 2024 ☑ | Data Structures, Algorithms
- Core Courses: OOP, Operating Systems, Computer Networks, DBMS, Machine Learning