MRIDHAV KHAJURIA

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EDUCATION

Bachelor of Technology in Computer Science and Engineering CGPA **Oct 2022-Present**
Vellore Institute of Technology, Bhopal

High School – HSC (86.6%), **Jun 2021-Mar 2022**
Army Public School, Dhaula Kuan

SKILLS

Language: Python, Java, SQL

Front-End Technologies: HTML, CSS, JavaScript (basics)

IDEs: VS Code, Jupyter Notebook

Software Testing: Debugging in Java & Python, unittest (Python), pytest (Ongoing), JUnit (Ongoing)

Soft Skills: Teamwork, Analytical Thinking, Leadership, Public Speaking

Courses: Oracle OCI Data Science Professional (Certificate), IBM DevOps Fundamentals (Certificate), Machine Learning (Academic Coursework)

CS Fundamentals: Data Structures & Algorithms, OOPS, DBMS, Operating Systems, Computer Networks

EXPERIENCE

ARTRAC, Indian Army (Training Program) **Jan 2025 - Apr 2025**

- Gained exposure to AI-driven applications in defense systems.
- Worked under guidance to understand secure data handling and system requirements.

CyberPeace Foundation (Training Program) **Feb 2025 - Jun 2025**

- Introduced to real-world cybersecurity practices and fundamentals of system protection.
- Understood basics of threat detection and policy frameworks.

PROJECTS

Command Logger with Encrypted Storage (Python + Flask CLI)

- Built a CLI-based command execution logger with real-time command tracking.
- Integrated AES encryption for secure log file storage.
- Designed a Flask-based dashboard to visualize and filter stored logs.
- Implemented subprocess handling for safe command execution.

Library Management System (Java + JDBC + MySQL) *(Ongoing)*

- Implementing CRUD operations for books, users, and transactions.
- Using JDBC for database connectivity and management.
- Applying OOP principles to ensure modular and extensible design.
- Designing role-based access control for admins and users.

RentScore (Python + Scikit-learn + Flask + Google Colab + HTML/CSS + Excel)

- Developed a machine learning-based risk assessment system using the Random Forest algorithm to evaluate car rental customers based on historical data such as license status, accident history, and fines.
- Built a full-stack application with a Python-Flask backend, HTML/CSS frontend, and Excel-based database for intuitive data input, prediction visualization, and real-time credit scoring.

ACHIEVEMENTS

- Cleared UPSC-CDS and NDA examinations.
- Consistently solved DSA problems on LeetCode, focusing on Linked Lists, Stacks, and Binary Search.

POSITIONS OF RESPONSIBILITY

Co-Lead at the Model United Nations **May 2023- Oct 2024**

- Represented college in Model United Nations, improving public speaking and negotiation skills.
- Collaborated with student teams and local authorities to organize events promoting public speaking, voter rights and global geo-political awareness.