

# ARANYA BAHUGUNA

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## Education

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VIT Bhopal University  
B. Tech CSE(Core)

CGPA: 8.71

(Expected May, 2026)

## Skills

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- HTML, CSS, JavaScript, Web flow, PHP, Python, Java, Figma, React, Vite, MongoDB, Supabase, Firebase.
- Java, MySQL, DBMS, Python.

## Projects

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### SOS-Service

**MERN | App development | Supa base | Machine Learning | AES**

(Sep, 2024 – Feb, 2025)

- Cross-Platform Development: Built SOS applications using Flutter and React, delivering responsive UI/UX across Android, iOS, and web for real-time emergency reporting.
- Backend & Integration: Implemented secure APIs with SupaBase, integrated Google Maps API and GeoHashing for geolocation services, and optimized real-time data synchronization across systems.
- ML & Security: Deployed YOLOv8-based emergency detection with fire severity tagging, applied AES encryption for secure transmission, and enforced role-based access control for data integrity.

### Inventory Management

(Jan, 2025 – Feb, 2025)

#### MERN Full Stack Development

- Full-Stack Development: Designed and developed an Inventory Management System using the MERN stack, enabling seamless CRUD operations, real-time updates, and an intuitive interface for efficient item tracking.
- Role-Based Access Control: Implemented secure multi-role authentication and authorization, ensuring scalable operations and controlled access across different user types.
- System Optimization: Optimized client-server communication with real-time synchronization, enabling instant inventory status updates and improving overall system reliability.

### AES Image Encryptor

**HTML | CSS | JS | AES – 256 Encryption**

(Feb, 2023 – May, 2023)

- AES-256 Cryptography: Built an image encryption platform using AES-256 with optimized algorithms, ensuring strong data confidentiality and efficient processing.
- Web Development & Integration: Developed and integrated the platform with HTML, CSS, and JavaScript, enabling seamless encryption workflows and secure image handling.
- Deployment & Usability: Enhanced the front-end interface for user-friendly secure uploads and deployed the site on GitHub, ensuring accessibility, integrity, and reliability.

## Internship and Certification

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- Internship at Indian Space Lab – Completed 30+ hours of hands-on training in Advanced Drone Technology, focusing on UAV design, autonomous navigation, and remote sensing. Gained practical experience with flight control systems and mission planning. Explored applications in aerial surveying and environmental monitoring.
- Certifications: IBM Machine Learning, MERN Stack, IBM Cyber Security

## Extra-Curricular and Achievements

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### Achievements

- Ecom-Thon Runner-up: Secured 2<sup>nd</sup> place in a competitive tech-cultural fest by pitching our idea.

### Extracurricular

- Cricket: Secured 1<sup>st</sup> place at Aarambh 2022 and 2<sup>nd</sup> place in Advitiya 2023.
- Core-Member, NSS VIT Bhopal – Awarded NSS 'B' Certificate for completing 240 hours of community service and a seven-day special camp, demonstrating commitment to social responsibility and community development.
- Founder and Coordinator of Pahadi Club VIT Bhopal.

## Additional Information

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- Hobbies: Playing Guitar, Gaming, Cooking, Writing, Sports.
- Languages: English (Professional working proficiency), Hindi (Native or bilingual proficiency).