Machum Roy Choudhury

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Second-year B.Tech Computer Science Engineering student at VIT Vellore

I have a strong foundation in programming, automation, and collaborative project development. Achieved AIR 413 in VITEEE, demonstrating academic excellence and competitive aptitude. Seeking opportunities to apply technical and leadership skills in software development and automation domains.

Education

B.Tech, Computer Science Engineering (Core)
Vellore Institute of Technology (VIT), Vellore
Expected Graduation: 2027
VITEEE 2025 All India Rank: 413

- Secured a top national rank (AIR 413) in VITEEE 2023, qualifying for Computer Science at VIT Vellore, the university's most competitive branch.

Technical Skills

- Programming Languages: Python, Java, C, C++, Verilog HDL, MATLAB, HTML, CSS, JavaScript, React JS
- Concepts: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Automation, IoT
- Tools: MATLAB, Git, GitHub
- Other: Publicity, Communication, Event Management, Creativity, Finance, Collaboration

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Projects

DomoticsHub – The Heart of Home Automation
GitHub Repository: https://github.com/MRC005/DOMOTICSHUB-HOME_AUTOMATION | Feb 2025
Live Demo:https://mrc005.github.io/DOMOTICSHUB-HOME_AUTOMATION/
Team: DomoticDynamos (Jaison, Machum, Jathin)

- Developed a centralized home automation platform to unify control of smart devices, enhancing comfort, security, and energy efficiency.
- Designed and implemented a user-friendly interface for seamless management of lighting, heating, security, and appliances via smartphones and computers.

- Integrated features such as remote access, energy monitoring, and AI-powered voice assistant for comprehensive smart home control.
- Ensured scalability, robust privacy protection, and user customization through modular architecture and secure data handling.
- Technologies used: HTML, CSS, JavaScript, React JS,Python, IoT protocols, Git, collaborative development.
- Project Documentation: https://github.com/MRC005/DOMOTICSHUB-HOME_AUTOMATION/blob/main/DomoticsHub-PPT%20(1).pdf

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Certifications

- AutoML Automated Machine Learning BootCamp – Udemy | Nov 2023
  Credential ID: UC-b66fe396-f4de-4caa-93d1-fcd0d6098f94
- Cyberbattle: A Workshop on Cyber Security – graVITas, VIT Vellore | Sep 2023
  Credential ID: 1111

Campus Leadership & Clubs
Junior Core Member
Dream Merchants VIT | Jul 2024 – Present
Roles: Finance, Collaboration

Core Member
AdMark. | Feb 2024 – Present
Roles: Creativity, Publicity

Core Committee Member
Enajori – The Assamese Literary Association | Jan 2024 – Present
Roles: Event Management

Languages

- Assamese (Native/Bilingual)
- Bengali (Limited Working Proficiency)
- English (Professional Working Proficiency)
- Hindi (Professional Working Proficiency)
- Japanese (Elementary Proficiency)

Additional Information

- Strong interest in automobiles and automation technologies.
- Committed to continuous learning and practical application of computer science concepts.