Vasheegaran M

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Career Objective

Motivated MCA student and aspiring Software Developer with strong foundations in programming, full-stack development, and AI-powered applications. Seeking opportunities to apply problem-solving skills, contribute to impactful software solutions, and grow professionally in a challenging IT environment.

Professional Summary

Detail-oriented and self-driven computer applications graduate with hands-on experience in Python, Java, MERN Stack, and AI-based projects. Proven ability to design, develop, and deploy real-world applications including chatbots and full-stack systems. Strong team player with exposure to national-level hackathons, adaptable to new technologies, and committed to continuous learning.

Education

MCA	**Mepco Schlenk Engineering College**, Sivakasi	2024 – Present
	CGPA: 8.47	
BCA	**Sri Paramakalyani College**, Tenkasi	2021 – 2024
	CGPA: 8.2	
HSC	**State Board**, Tamil Nadu	2020 – 2021
	93%	
SSLC	**State Board**, Tamil Nadu	2019 – 2020
	92%	

Certifications

- Data Analytics using Power BI – Microsoft & SAP (Naan Mudhalvan, TNSDC)
- Python 101 for Data Science – IBM Cognitive Class
- Programming in Java – NPTEL
- HTML, CSS & JavaScript – Infosys Springboard

Projects

IPC Legal Chatbot (RAG-based AI Assistant)   Python, Streamlit, RAG

Live App: https://ipcchatbot.streamlit.app
GitHub: https://github.com/Vasheegaran/ipc-chatbot/

- Developed a 100% free legal assistant covering 511 IPC sections using Retrieval-Augmented Generation
- Implemented multi-strategy search (keyword, exact match, chapter-wise) with-

out external paid APIs

- Indexed 2,205+ legal keywords, optimizing responses to under 3 seconds

- Deployed on Streamlit Cloud with a legal-themed UI

- Achieved ~95% query accuracy for legal explanations sourced from official IPC text

- Designed with a strong focus on performance, scalability, and accessibility

AI Recipe Pantry Manager   MERN Stack

GitHub: https://github.com/Vasheegaran/ai-recipe-pantry

- Built a full-stack web application for managing pantry items and generating recipes using AI

- Integrated Spoonacular API for intelligent recipe recommendations

- Implemented secure CRUD operations with MongoDB

- Designed responsive UI using React and RESTful backend using Node.js & Express

- Improved user experience through efficient state management and API handling

Achievements

Finalist – Smart India Hackathon (SIH) 2025 Grand Finale

Location: Bhopal, Madhya Pradesh
Problem Statement: Antimicrobial Residue & Usage Monitoring (Software)

GitHub: https://github.com/Vasheegaran/livestock
APK Prototype: https://drive.google.com/file/d/1vjZkbjQo-Uak-8UlaXoFDVlFOW6NoOF-/view

- Selected as a National Finalist for designing an AI-driven digital compliance system addressing antimicrobial residue, AMR surveillance, and food safety in livestock farming

- Implemented geo-tagged digital vet prescriptions, automated withdrawal period calculation, and MRL compliance enforcement to prevent unsafe livestock sales

- Designed a farmer compliance credit score to improve buyer trust and market transparency

- Developed AI-assisted dashboards for regulators with data visualization and usage trend analysis

- Tech Stack: Flutter, Firebase, Firestore, Python, AI (rule-based)

Technical Skills

Programming: Java, Python, C, Javascript
Web Development: MERN Stack (MongoDB, Express.js, React.js, Node.js)
Databases: MySQL