

RAAM PRATHAP R V

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Education

Amrita Vishwa Vidyapeetham

Bachelor Of Technology, Computer Science and Engineering | CGPA: 8.55/10

Aug. 2023 – Present

Coimbatore, Tamil Nadu

Experience

AI/ML Intern | Metatron Cube Software Solutions | Offer Letter

Feb. 2025 – Present

AI-ML | Image Processing

Remote

- Designing a machine learning model to analyze architectural blueprints and extract key structural elements such as walls, enabling automated 3D walkthrough generation.
- Collaborating with the 3D development team to ensure seamless integration between blueprint analysis outputs and architectural rendering workflows.

Software Developer Intern | 1000Lookz

Dec. 2024 – Mar. 2025

AI-ML | UI/UX | RAG | GAN | Deep Learning

Remote

- Engineered an AI-driven hairstyle recommendation system using GANs, enhancing personalization and improving user engagement through an optimized UI.
- Implemented a Retrieval-Augmented Generation (RAG) model using DeepSeek for PDF-based question answering, reducing information retrieval time by 40%.

Projects

Bird Species Classifier | GitHub | Demo

- Built a deep learning web application for bird species identification using a custom-trained CNN.
- Implemented a multi-layer convolutional model with over 11M parameters for high accuracy predictions.
- Developed a web interface using Flask, HTML, and CSS with image upload functionality and responsive result display.
- Integrated Google Drive model hosting and deployed the app on Render for seamless access.

Sociogram v2 | GitHub | Demo

- Developed a modern chat application enabling real-time text and image messaging among registered users via email authentication.
- Engineered backend infrastructure with Node.js, Express.js, and WebSockets for seamless instant messaging.
- Built responsive frontend using React.js, Tailwind CSS, and Vite.js, with secure image storage via Cloudinary.
- Implemented user authentication and profile management features for enhanced user experience.

Post-Accident Alert System | Frontend | Backend | Demo

- Engineered a real-time system for detecting and reporting accidents to improve road safety.
- Built backend using Node.js, Express.js, and WebSockets for real-time communication and emergency broadcasting.
- Developed frontend dashboards for clients, drivers, and hospitals with role-based authentication and responsive UI.
- Integrated nearest hospital finder and emergency alert broadcast for efficient emergency response.

Technical Skills

Languages: English (fluent), Tamil (fluent), Hindi (basic proficiency), Japanese (basic proficiency)

Programming Languages: C, C++, Python, Java, JavaScript, Haskell, SQL (MySQL)

Web Development: HTML5, CSS3, React.js, Vite.js, Node.js, Tailwind CSS, Bootstrap, Flask, FastAPI

Databases & Backend: MySQL, MongoDB, Firebase, RESTful APIs

Machine Learning & AI: TensorFlow, PyTorch, GANs, OpenCV, Scikit-learn, Transformers, Retrieval-Augmented Generation (RAG), DeepSeek

Developer Tools: VS Code, Eclipse, Android Studio, Git, GitHub, Google Cloud Platform

Embedded Systems: Raspberry Pi, ESP32, Arduino

Design & Analytics: Figma, Power BI, Microsoft Excel

Operating Systems: Linux (Ubuntu), Windows

Awards / Extracurricular

- Finalist, **Cisco ThingQubator** | Recognized among top 10 of 500+ entries for designing an IoT-based accident detection system, enhancing real-time emergency alerts.
- Winner, **Vertex Innovate 2025** | Awarded for excellence in real-world tech application. | [View Certificate](#)
- Volunteer | Model United Nations Event Management | Contributed to organizing and managing MUN events, coordinating logistics, and ensuring smooth operations. [View Certificate](#)