

Akshay KS

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EDUCATION

Amrita Vishwa Vidyapeetham

Bachelor Of Technology , Computer Science & Engineering | CGPA: 8.97/10

Coimbatore, Tamil Nadu

Aug. 2023 – Present

Indian Institute of Technology Madras

Bachelor Of Science, Data Science & Programming | CGPA: 8.28/10

Online

Jan. 2024 – Present

EXPERIENCE

Research Intern - SONY SSUP

AI/ML - Image Processing

December 2024 – Present

Coimbatore

- Developed lightweight ML models for Sony SSUP's edge-AI smart polyhouse, achieving >90% accuracy and <1s inference for automated drying time estimation and quality assessment.

Software Developer Intern

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

Oct. 2024 – Apr. 2025

Remote

- Experimented with a hairstyle recommendation system using pre-trained GANs and worked on the site's UI design
- Built an RAG model using DeepSeek for PDF-based question answering, reducing retrieval time by 40%.

Open-Source Contributor

Development - Debugging - Testing

Oct 2024 – Present

Remote

- Contributed to open-source projects via GSSoC, Hacktoberfest, and AWOC by developing features and fixing bugs.

PROJECTS

Pragati 2025 — Annual Fest of Amrita School of Business (ASB) | GitHub

Team Project

Tech Stack: Next.js, Node.js, Express.js, PayU, Swagger, Tailwind, MySQL, Gemini

- Contributed to backend development of a tech fest event registration web app for 500+ users, improving registration rates by 200% and generating INR 1 Lakh+ revenue through secure PayU payment integration.
- Built and documented scalable REST APIs using Express.js and MySQL, leveraging Swagger for seamless team collaboration and faster frontend-backend integration.

Amudha Lab Component Tracker | GitHub-Frontend | GitHub-Backend

Team Project

Tech Stack: Next.js, Express.js, MongoDB, Redis, Docker, GCP

- Developed a full-stack inventory system for lab component requests, with real-time tracking and GCP deployment. Integrated Redis caching and ECharts for performance and insights.

Focus-Pilot - Chrome Extension for Productivity & Mindfulness | GitHub

Individual Project

Tech Stack: React, TypeScript, Tailwind CSS, Chrome Extension APIs, Vite, Recharts.js

- Built a 24/7 Chrome extension to track browsing activity, analyse distractions, and improve focus—helping users reduce unproductive screen time by 35% through Pomodoro timers, wellness prompts, and weekly analytics.

ACHIEVEMENTS & AWARDS

- Finalist | Cisco thingQbator** — Recognized for innovation in IoT-based accident detection and emergency response.
- Winner | Vertex Innovate 2025** — View Certificate.
- Rank 7 — AWOC 2025** — Among top 7 of 250+ participants in Amrita Winter of Code — Site
- 3rd Prize — AI Agent Hackathon 2.0 @ IITM** — Built a finance & wellness AI copilot using Fetch.ai — View
- Co-organized a 5-day DSA workshop** attended by 50+ students, designing and solving algorithm challenges.
- Code Vipasana Season 5 & 6** — Built GenAI use cases with Google Cloud — Certificate 1, Certificate 2.
- Google Cloud Skill Boost** — Gained hands-on experience with GCP — View Profile.
- Competitive Programming** (Solved 500+ Questions) — LeetCode, GFG, HackerRank, CodeForces, CodeChef (3*).

TECHNICAL SKILLS

Areas of Interest: Full Stack Development, Cloud Computing, Software Design, AI/ML, Competitive Programming

Languages & Frameworks: Java, Python, JavaScript, TypeScript, C++, Go, HTML/CSS, Node.js, React.js, Next.js, Express.js, TailwindCSS, Flutter, Dart

Development Tools & Technologies: GCP, Docker, Kubernetes, Git, GitHub, MySQL, PostgreSQL, MongoDB, Firebase, Postman, TensorFlow