

Keshaw Krishnappa

AI Engineer

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Enthusiastic and self-motivated AI & Machine Learning undergraduate with hands-on experience building 10+ AI products and participating in 20+ Hackathons. Passionate about solving real-world problems through AI and modern web technologies, with strong collaboration and leadership skills. Eager to contribute to innovative engineering teams and build impactful solutions.

Experience

Artificial Intelligence Intern

Nov 2023 - Dec 2025

- Completed an Artificial Intelligence with Python internship, gaining hands-on experience in Machine Learning, Deep Learning, Computer Vision, NLP, TensorFlow, and Microsoft Azure AI Fundamentals through structured industry-oriented training.
- Built a Vision Transformer (ViT) image classification model using TensorFlow/Keras, implementing patch embeddings, multi-head self-attention, and data augmentation to achieve ~73% test accuracy on the CIFAR-10 dataset.
- Developed a real-time Face Mask Detection System using MobileNetV2, OpenCV, and TensorFlow, enabling live mask classification with face detection for scalable computer vision applications.

Open Source Contributor

2017 - present

- Contributed 30+ commits and resolved 10+ GitHub issues across open-source AI and software development projects during GirlScript Summer of Code (GSSoC) 2026.
- Collaborated with mentors and maintainers to submit pull requests, resolve 10+ issues, and improve project functionality using Git, GitHub, and modern development workflows.
- Delivered 30+ meaningful open-source contributions while participating in code reviews, debugging, feature development, and documentation for AI and software projects.
- Strengthened expertise in collaborative software engineering, version control, and open-source development through hands-on contributions in a global developer community.

Projects

StudyMate-X | Next.js, FastAPI, MCP, TinyAgent, Groq

- Built an AI study assistant with confidence-gated RAG routing – queries only get answered from retrieved document context when similarity confidence clears a threshold, otherwise falling back to direct LLM response
- Orchestrated tool access (local doc search, web search) through MCP servers managed via mcpd, with a TinyAgent-based local retrieval agent using TF-IDF-backed embeddings over a custom vector store
- Implemented LLM fallback chain (llama-3.3-70b → llama-3.1-8b → gemma2-9b) to gracefully degrade under Groq rate limits instead of failing requests

Scholaris | *FastAPI, Next.js, Groq/LangChain, MongoDB Atlas*

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Attendance Suite | *FastAPI, PostgreSQL, Electron, Flutter*

- Developed a full-stack, cross-platform attendance management system using FastAPI and PostgreSQL, integrating a Electron.js desktop application and a Flutter mobile application via RESTful APIs, leveraging AI-assisted development tools to accelerate implementation
- Engineered a secure authentication protocol using HMAC-based token signing and time-based expiration, implementing device-session binding and multi-factor validation (session, signature, subject ID, nonce) to prevent request forgery
- Designed and implemented role-based access control (RBAC) for teacher, student, and admin roles, with rate limiting and audit logging for security compliance and activity tracking
- Built offline-first data synchronization for the mobile client, including local queue management and automatic sync on network reconnection, improving reliability in low-connectivity environments

Education

- B.E., Artificial Intelligence & Machine Learning — VTU, Bengaluru | Sep 2023 – Sep 2027 | **CGPA: 8.80/10.00**
- PUC (PCMC) — Government PU College, Yelahanka | 2021 – 2023 | **87%**
- CBSE Class X — Agragami Vidya Kendra | 2019 – 2020 | **77%**

SKILLS

- Python, Java, JavaScript, SQL, C | Machine Learning, Deep Learning, Generative AI, LLMs, RAG, NLP, Computer Vision
- FastAPI, React.js, Next.js, PostgreSQL, MongoDB | Git, Docker, Google Cloud, Vertex AI, Vercel
- Data Structures & Algorithms, OOP, REST APIs, Agile Development

Certifications & Achievements

- 1st Google Student Ambassador of all time from the college (2026)
- 1st Prize, HackMarch 2.0 — KLE Institute of Technology
- 3rd Prize, Ignite Room Hackathon — selected for the Grand Finale in Delhi
- Attended Microsoft Build //localhost:bengaluru, Microsoft Fabric Day 2026, Hack Days by Atria Summer of Code (MLH), and many other hackathons and developer events across Bengaluru's AI/tech community