

AMEYA BORKAR

ameyaborkar17@gmail.com · +91 8999260116 · Pune, India
github.com/AmeyaBorkar · [linkedin.com/in/ameya-borkar-69b947381](https://www.linkedin.com/in/ameya-borkar-69b947381) · ameyaborkar-60d8c.web.app

EDUCATION

Vishwakarma Institute of Technology, Pune	B.Tech CS (AI & ML), Second Year, CGPA 8.94	2024 - 2028
UC Berkeley	CS 160 (User Interface Design & Development), CS 161 (Computer Security)	Summer 2026
Pioneer Public School, Pune	Class 12, 81.4%	2022 - 2024
The Bishop's School, Pune	ICSE (Class 10), 92.1%	2011 - 2022

TECHNICAL SKILLS

Languages: Python, C, C++, Java, TypeScript, JavaScript, SQL
AI / ML: Deep learning, NLP, computer vision, LLMs and AI agents, prompt engineering
Systems & Backend: Distributed systems, operating systems, databases, containers, REST APIs, full-stack web
Always learning: comfortable picking up new languages, tools, and domains quickly, and shipping real work with them.

EXPERIENCE

Backend Developer <i>KissanKonnnect</i>	Jan 2026 - Feb 2026
Built and deployed the official production website for a high-growth agritech company. Wrote the full backend (Express.js, Supabase, Razorpay, REST APIs) behind a Next.js frontend. It is live and serving real users.	
AI Engineer <i>Aria Technologies</i>	Jun 2025 - Jul 2025
Built a production NL-to-SQL chatbot with LLM fine-tuning, semantic schema mapping, and prompt-injection safeguards. Shipped to internal users in 6 weeks.	
AI/ML Coordinator <i>Microsoft Learn Student Club, VIT Pune</i>	Aug 2025 - Present
Lead the AI/ML vertical. Run 10+ workshops on Agentic AI, NLP, and computer vision for 100+ members, and source industry projects like KissanKonnnect.	
AI/ML Developer <i>Google Developer Group (GDG)</i>	Sep 2024 - Jun 2025
Built and shipped ML models in TensorFlow and PyTorch for predictive analytics, NLP, and computer vision. Mentored 20+ developers on transformer architectures.	
Computer Vision Head <i>Team Griffin India</i>	Sep 2024 - Jun 2025
Architected the autonomous CV stack (YOLOv8 detection, tracking, ROI) for Jetson Nano. Led 5+ engineers to AIR 1 (Overall and Design Report) at SAE Aeromodelling Challenge 2025.	
Treasurer, Board of Directors <i>Rotaract Club</i>	2026 - 2027
Serve on the Board of Directors as Treasurer, managing the club's finances, budgeting, and financial planning for the tenure.	

PROJECTS

- Banking Management System.** A 15,000-line console banking system in C with concurrent sessions, a live stock-market simulator with quantitative analytics, a four-heuristic fraud engine, real-time messaging, and PIN and 2FA authentication. [C, Win32 API, Multithreading] github.com/AmeyaBorkar/BankSystem1.7
- Engram.** Hierarchical memory for LLM agents with coarse-to-fine retrieval, principled decay, contradiction surfacing, and temporal queries. Scored 87.75% on LongMemEval-S (n=500), the first published reproducible result with an open-weight model. [Python, sentence-transformers, NumPy; PyPI: engrampy] github.com/AmeyaBorkar/Engram
- LocateVision.** A hybrid image classifier that fuses a ResNet-50 CNN and a Swin Transformer through a custom gated-attention layer, then serves the model through a Flask web app with drag-and-drop inference and prediction history. [Python, PyTorch, Flask] github.com/AmeyaBorkar/LocateVision
- GridWatch.** An emergency-dispatch simulation of a grid city that wires roughly 24 advanced data structures (Fibonacci heap, suffix array, BK-tree, segment tree, quadtree, and more) into one system, so each live metric is computed by a different structure. [C11] github.com/AmeyaBorkar/GridWatch
- Fraud Detection Ensemble.** An adaptive TabNet- β -VAE fusion ensemble that closes the uncertainty gap in fraud anomaly detection. Published as first author at ICAIN 2025 (Springer). [Python, TabNet, β -VAE, scikit-learn]

Many more on GitHub (github.com/AmeyaBorkar), including OS kernels, finance tools, ML research, and full-stack web apps.

PUBLICATIONS & PATENT

- Adaptive TabNet- β -VAE Fusion Ensemble Closes Uncertainty Gap In Fraud Detection**, First Author, ICAIN 2025, published by Springer. link.springer.com/book/9783032249289
- EdgeCAAI-Net: Artist-Invariant Network for On-Device Music Genre Classification**, ICICI 2026 (4th Intl. Conference on Inventive Computing and Informatics), in press.
- Patent filed** on VeridianOS, covering hypervisor-based OS isolation using CPU virtualization extensions.

OUTSIDE THE TERMINAL

Powerlifting, MMA, motorcycling, swimming, badminton, tabla and piano, and beatboxing.