

# AMEYA BORKAR

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## EDUCATION

**Vishwakarma Institute of Technology, Pune**

2024 – 2028

B.Tech, CS – AI & ML | CGPA: 9.05 / 10 | CV Head, Team Griffin · AIML Dev, GDG · AIML Coordinator, MLSC

## TECHNICAL SKILLS

**Languages:** Python, C, C++, Java, JavaScript, SQL, NoSQL

**Deep Learning:** CNNs, Transformers, RNNs/LSTMs, GANs, VAEs, Attention Mechanisms, Multi-Task & Contrastive & Curriculum Learning

**Frameworks:** PyTorch, TensorFlow, scikit-learn, Hugging Face, OpenCV, YOLOv8, torchvision, timm, Albumentations

**NLP / LLMs:** RoBERTa, LLM fine-tuning, prompt engineering, NL-to-SQL, Whisper, EasyOCR, Librosa, Agentic AI

**Web & Tools:** Next.js, Express.js, Flask, Supabase, Razorpay, MySQL, Git, Linux, Docker, FFmpeg, Jetson Nano

## EXPERIENCE

**Backend Developer** | *KissanKonnnect*

Jan 2026 – Feb 2026

- Built and deployed the official production website for a high-growth agritech company; engineered full backend (Express.js, Supabase, Razorpay, REST APIs) powering the Next.js frontend — live and serving real users.

**AI Engineer** | *Aria Technologies*

Jun 2025 – Jul 2025

- Engineered a production NL-to-SQL chatbot with LLM fine-tuning, semantic schema mapping, few-shot learning, and multi-layer security (threat modeling, prompt injection safeguards, data anonymization); deployed within 6 weeks.

**AI/ML Coordinator** | *Microsoft Learn Student Club, VIT Pune*

Aug 2025 – Present

- Lead AI/ML vertical: 10+ workshops on Agentic AI, NLP, and computer vision for 100+ members; sourced industry projects including KissanKonnnect.

**AI/ML Developer** | *Google Developer Group (GDG)*

Sep 2024 – Jun 2025

- Built and shipped ML models (TensorFlow, PyTorch) for predictive analytics, NLP, and computer vision; mentored 20+ developers on transformer architectures.

**Computer Vision Head** | *Team Griffin India*

Sep 2024 – Jun 2025

- Architected autonomous CV stack (YOLOv8 detection + tracking + ROI) for Jetson Nano edge inference; led 5+ engineers end-to-end.
- Directly contributed to winning **AIR 1 (Overall Performance)** and **AIR 1 (Design Report)** at SAE Aeromodelling Challenge 2025, Chennai.

## PROJECTS

- SCEE + ACA:** Novel emotion embedding architecture fusing transformer embeddings with NRC-VAD features; 6 multi-task heads (28-class emotion, VAD, persuasion) with 3-stage curriculum training and contrastive learning across 3+ datasets. *[PyTorch, RoBERTa, Hugging Face]*
- Multimodal Emotion Analysis:** End-to-end emotion detection across text/image/audio/video via unified REST API; custom UltimateNet architecture; 7-stage video pipeline with cross-modal LLM fusion. *[PyTorch, Flask, Whisper, Cerebras LLM]*
- Fraud Detection Ensemble:** TabNet- $\beta$ -VAE anomaly detection ensemble — published as first author at ICAIN 2025 (Springer/Scopus). *[TabNet,  $\beta$ -VAE]*
- WhatsApp Clone:** Real-time chat app with custom TCP/IP protocol, thread-per-client architecture, ConcurrentHashMap session management, normalized MySQL schema, message status tracking, and Swing UI. *[Java, MySQL, Socket Programming, Multithreading]*
- Banking System:** 15,000+ LOC across 15 modules; live stock market simulator (multi-factor pricing model, quantitative analytics, ASCII charting), 4-heuristic fraud engine (statistical anomaly, high-frequency, smurfing, repetition detection), real-time P2P/group chat, and PIN + 2FA auth with file-based concurrency locking. *[C, Win32 API, Multithreading]*

## PUBLICATION

**Adaptive TabNet- $\beta$ -VAE Fusion Ensemble Closes Uncertainty Gap In Fraud Detection**

First Author | ICAIN 2025 | Scopus & Springer Indexed (in press)

## OUTSIDE THE TERMINAL

Powerlifting · Motorcycling · Swimming · Badminton · Tabla & Piano · Beatboxing