

Ayush Choudhar

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SUMMARY

Computer Engineering student specializing in **AI/ML Engineering, Modern Frontend Architecture, and UI/UX Design**. Proven track record of architecting end-to-end intelligent applications—from training deep learning models and fine-tuning LLMs to crafting highly responsive visual interfaces. Hackathon winner focused on building human-centered AI products bridging ML models with intuitive user experiences.

EDUCATION

Vidyavardhini's College of Engineering & Technology
B.E. in Computer Engineering (Honors in AI & ML) – CGPA: 8.45/10.0

July 2023 – May 2027
Vasai, MH

PROFESSIONAL EXPERIENCE

Zofatech

Full Stack Developer Intern

Remote

Feb 2026 – Present

- Engineered high-performance frontend interfaces using Next.js and Tailwind CSS, translating Figma wireframes into production-ready UI components with strict adherence to design systems.
- Integrated client-facing interfaces with backend microservices, optimizing client-side state management and reducing page load latencies by 25%.
- Conducted WCAG audits and user experience iterations to ensure seamless navigation across multi-device web tools.

PROJECTS

DeepFake Detector – AI Media Authentication Platform 🤖 | *React, TensorFlow, OpenCV, MesoNet, Python, REST API*

- Collaborated with faculty at Purdue University Fort Wayne (PFW) to architect a full-stack deepfake detection system powered by a custom MesoNet CNN model to classify AI-generated visual media.
- Designed an interactive React dashboard with probability visualizations, heatmap overlays, and frame-by-frame diagnostic breakdowns to explain AI confidence to end users.
- Engineered OpenCV preprocessing pipelines with a TensorFlow inference backend, achieving 94.8% accuracy, 93.6% precision, and 95.2% recall.

PayProtect – On-Device Scam Detection & Accessibility UI 🤖 | *Python, TensorFlow Lite, Android, NLP, Edge AI*

- Developed an end-to-end CNN SMS scam detection pipeline in TensorFlow, trained on a 30K multilingual dataset (English, Hindi, Marathi, Hinglish).
- Optimized model for mobile deployment via TensorFlow Lite quantization, achieving sub-20ms inference speed and 97.1% accuracy without compromising performance.
- Designed a non-intrusive Android overlay UI using accessibility standards, providing real-time visual warning alerts during high-risk financial transactions.

ACHIEVEMENTS

- Academic Research Collaboration:** Partnered with faculty at Purdue University Fort Wayne (PFW) on DeepFake Detector research 2025 – Present
- First Prize,** TechBlitz 12-Hour Hackathon (VCET): Designed and built the Clinico healthcare platform (UI/UX & ML interface) Mar 2026
- Fine-Tuned LLaMA-4B:** Fine-tuned LLaMA-4B model on an AMD MI300X GPU at AMD AI Sprint, IIT Bombay Jul 2025
- Published Research Paper:** Author on "Sleep Apnea Detection Using Deep Learning" at INCET 2025 2025
- Second Prize,** Oscillation Research Paper Presentation Competition 2025, VCET Oct 2025

SKILLS

AI / Machine Learning: TensorFlow, PyTorch, Scikit-Learn, CNNs, LLM Fine-Tuning (LLaMA), TFLite, OpenCV, NLP, Deep Learning, Model Optimization

UI/UX & Frontend: Figma, Wireframing, User Research, Design Systems, Responsive Design, React, Next.js, TypeScript, JavaScript, HTML5/CSS3, Tailwind CSS, Redux, Zustand

Backend & Databases: Python, Node.js, FastAPI, Flask, REST APIs, PostgreSQL, MongoDB, MySQL, Redis, Pgvector, Firebase

Tools & Workflow: Git, GitHub, VS Code, Jupyter Notebook, Postman