Chaitanya Kota

AI & Deep Learning Engineer

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Summary

AI engineer & published IEEE researcher in real-time computer vision. Skilled in FastAPI, PyTorch, PostgreSQL, and Docker with experience deploying multimodal AI systems (CV + NLP) to production using CI/CD and observability (Prometheus, Grafana). Seeking AI/backend roles to apply multimodal expertise at scale.

Education

Oct 2024 – Present MSc Artificial Intelligence Engineering, **University of Passau**, Germany

2019 – 2024 B.Tech in Artificial Intelligence (CGPA: 9.0/10), **SRM Institute of Science & Technology**, India

Skills

Core AI/ML: PyTorch, TensorFlow, OpenCV, Transformers, Multimodal AI
Backend/Infra: FastAPI, PostgreSQL, Docker, AWS, CI/CD (GitHub Actions), Prometheus, Grafana
Frontend (supportive): React, Tailwind, TypeScript

Projects

Multimodal AI Analyzer 2025

- Built full-stack AI platform integrating SAM, YOLO, and CLIP with FastAPI backend & React frontend
- Production-ready deployment with CI/CD (GitHub Actions) and monitoring (Prometheus, Grafana)
- **Tech:** FastAPI, React, TypeScript, PyTorch, Docker, PostgreSQL
- **GitHub:** github.com/Chaitanyakota9/multimodal-ai-analyzer

Fitness Tracker 2024

- Developed full-stack fitness tracking app with MongoDB backend & responsive frontend
- Automated CI/CD workflows, analytics dashboard, and database health monitoring
- **Tech:** Node.js, Express, MongoDB, JavaScript, HTML/CSS
- **Demo:** Fitness tracker demo

Conversational AI (Hu Tao Chatbot) 2025

- Character-based AI chatbot with authentication and personality simulation
- Deployed on Render with persistent sessions
- **Demo:** hutao-chatbot-e6rw.onrender.com/chatbot

AI Image Labeler 2024

- Automated image labeling system using CV and object detection
- Reduced manual annotation effort by ∼70%
- **Tech:** Python, OpenCV, ML

Publications

2023 **People Tracking using YOLO-NAS**, IEEE
2023 **Action Recognition using LRCNN**, IEEE