Akshay Chame

AI/ML Engineer

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EDUCATION

Bachelor of Technology in Computer Science | CGPA: 8.92
Vishwakarma Institute of Technology, Pune | Nov 2022 – May 2025

Diploma in Computer Engineering | 94.97%
Puranmal Lahoti Government Polytechnic, Latur | Aug 2019 – May 2022

PROFESSIONAL EXPERIENCE (1+ YEARS)

GEN AI/ML Intern
QED42 - Advanced AI Systems, RAG Applications, and Agentic Workflows
Dec 2024 – Jun 2025

- **Created 20+ AI POC projects** spanning RAG systems, AI agents, MCP protocols, and fine-tuning implementations
- **Developed enterprise AI DXP platform** with intelligent search, conversational AI 10% faster, and web crawling capabilities
- **Implemented LLM observability** using SigNoz for monitoring AI API calls and distributed tracing
- **Technical leadership:** Presented **MCP session** at industry meetup, submitted **15+ AI project ideas** in ideathon

Key Projects:

- **DeepSeek-R1 Mobile:** Deployed LLM on Android using Termux, created offline mobile AI app
- **Offline Chrome Extension:** Built WebLLM-powered browser extension with client-side inference
- **VS Code AI Extension:** Developed Gemini-powered documentation generator for developers
- **RAG Systems:** Built intelligent search with Llama-3, LangChain, Tavily; Excel analysis with Dockling
- **Voice Assistant:** FastAPI + Groq + OpenAI TTS for real-time spoken AI conversations
- **AI Tools:** Multi-model LLM comparison GUI, social media content automation with CrewAI

KEY PROJECTS

AI Water Well Prediction | Jal Shakti Ministry - Winner Smart India Hackathon 2023

- Led team developing ML-powered prediction system using KNN, K-Means on CGWB data
- Built full-stack solution with Python, Flask, React.js for government deployment

AI Resume Matching System | Codewits Solutions (jan 2024 – apr 2024)

- Developed BERT-based matching tool improving accuracy by 15%, Streamlit interface with NLP processing

Deepfake Detection System (Research Project)

- Built LSTM + ResNext CNN models with 30% faster detection using CUDA, Django web deployment

TECHNICAL SKILLS

Programming: Python, Java, C/C++, JavaScript

AI/ML: LangChain, RAG, MCP, AI Agents, Fine-tuning, BERT, LSTM, Llama-3, Gemini, PyTorch, TensorFlow

Development: FastAPI, Django, Flask, React.js, Streamlit

Databases: SQL, MongoDB, Vector DBs (Qdrant, Milvus)

Cloud & DevOps: AWS, Azure, GCP, Docker, CI/CD, Git

Observability: SigNoz (LLM tracing), distributed tracing

ACHIEVEMENTS & CERTIFICATIONS

Awards & Recognition:

- Winner - Smart India Hackathon 2023 (Team Leader)
- Bronze Medal - NASSCOM Foundation AI-VILT
- Technical Speaker - MCP Protocol at Industry Meetup
- Innovation Contributor - 15+ AI Project Ideas in Ideathon

Professional Certifications:

- Oracle Cloud Infrastructure Gen AI Certified 2024
- IBM Data Science Professional Certified
- Microsoft Power BI Data Analyst Certified
- AI-based Industrial Project - Codewits Solutions