

# Yashovardhan Tiwari

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## EDUCATION

### Vellore Institute of Technology, Bhopal

Bachelor of Technology in Computer Science and Engineering; CGPA: 8.08/10.0

Bhopal, MP

Expected May 2026

## EXPERIENCE

### AI & Full-Stack Engineer

*Self-Directed AI Systems Engineering & Open Source*

Jan 2025 – Present

Remote

- Independently designed and shipped **2 production-grade** AI applications using LangGraph, LangChain, and FastAPI – handling full architecture, deployment, and iteration without team oversight.
- Built RAG pipelines with FAISS and ChromaDB; semantic similarity retrieval returned contextually relevant results where exact keyword search failed on **3 out of 5** test query categories during self-evaluation.
- Containerized and deployed backend services on Render using Docker; measured average API response times of **280–320ms** under personal load testing with **up to 20 concurrent requests**.
- Added Redis caching for repeated LLM calls, cutting redundant API round-trips on identical prompts – observed **2x** response speed improvement on cache hits during local benchmarking.

## PROJECTS

### InsightATS Resume Builder | Python, FastAPI, LangChain, React, Docker, FAISS

[Live Demo](#)

- Engineered a full-stack ATS resume analysis platform that parses resumes and job descriptions through a LangChain LLM pipeline, computing structured keyword alignment scores between candidate profiles and job requirements.
- Built a multi-agent workflow with dedicated agents for skill extraction, gap analysis, and suggestion generation – transforming unstructured resume text into actionable improvement reports.
- Implemented semantic similarity scoring using Hugging Face sentence embeddings and FAISS vector search, enabling context-aware skill matching beyond exact keyword lookup.
- Deployed FastAPI backend with Docker on Render, integrating Redis response caching to achieve consistent **sub-300ms** API latency under standard load.
- Secured the platform with JWT-based authentication, CORS policies, and per-endpoint rate limiting to meet production reliability and data privacy standards.

### Nexus AI Agent | Python, LangChain, FastAPI, Redis, Hugging Face

[Live Demo](#)

- Integrated LangChain tool calling and persistent contextual memory, enabling the agent to autonomously break complex user queries into sequential, dependency-aware sub-tasks.
- Optimized inference throughput by implementing Redis-backed response caching and prompt batching, significantly reducing redundant LLM calls on repeated or similar queries.
- Engineered an async task queue with automatic retry logic and exponential backoff, improving resilience against API timeouts and transient model provider failures.
- Secured all endpoints with JWT authentication, rate limiting, and CORS protection; implemented structured JSON logging for end-to-end request traceability in production.

## TECHNICAL SKILLS

**Languages & Scripting:** Python, JavaScript, Bash

**Backend Frameworks:** FastAPI, LangChain, LangGraph, Node.js

**AI / LLM:** RAG Pipelines, LLM Orchestration, Prompt Engineering, Hugging Face Transformers

**Vector Search & Storage:** FAISS, ChromaDB, Embedding Pipelines

**Databases & Caching:** Redis, PostgreSQL, MongoDB

**DevOps & Cloud:** Docker, AWS, Render, CI/CD

## CERTIFICATIONS

**OCI AI Foundations** – Oracle (Sept 2025) | Cloud AI Infrastructure, Model Deployment

**Generative AI Professional** – Oracle (Oct 2025) | LLM Integration, Prompt Engineering

**Machine Learning Specialization** – Coursera, Andrew Ng / Stanford (Dec 2023)