

# Shivam Rathod

AI Engineer - Generative AI & Intelligent Systems

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## EXPERIENCE

### AI Developer - Resume Forge (Freelance)

Remote

AI-Powered Resume Optimization Platform

Oct 2025 - Nov 2025

- Built an AI-powered resume optimization platform using **Streamlit**, **SentenceTransformers**, **KeyBERT**, and **Gemini API** for semantic ATS scoring and skill-gap analysis.
- Designed a **hybrid AI pipeline** combining local embedding-based evaluation with Gemini-powered feedback to reduce API dependency and inference cost.
- Implemented job-description similarity matching and generated ATS-friendly PDF resumes with customizable templates using Streamlit Cloud deployment.

### Backend & Automation Developer - FieldLens (Freelance)

Remote

Field Data Verification Platform

Sept 2025 - Oct 2025

- Developed an automation-first backend platform for telecom field verification, enabling task orchestration, image validation, and technician workflow management.
- Built a bilingual **Twilio WhatsApp automation system** guiding technicians through a structured **14-step verification workflow**, enabling standardized field data collection and verification across multilingual operations.
- Implemented automated image validation, blur detection, MongoDB synchronization, and completion notification workflows for multilingual field operations.

## PROJECTS

### Codebase Intelligence - AI-Powered Repository Analysis Platform [GitHub](#) | [Live](#)

Built an AI-powered repository intelligence platform that transforms GitHub repositories into searchable knowledge bases using semantic search, dependency graph analysis, architecture generation, and AI-assisted code review.

Implemented **RAG pipelines**, **vector embeddings**, **Qdrant retrieval**, **dependency graph visualization**, and **automated architecture generation** using FastAPI, React, and TypeScript to enable repository exploration through natural-language queries. Designed end-to-end repository ingestion workflows, interactive graph analysis, and architecture intelligence features that help developers understand unfamiliar codebases more efficiently.

### KrishiMitra AI - Multimodal Agricultural Intelligence System [Live](#) | [GitHub](#) | [Demo](#)

Built a multilingual agricultural intelligence platform integrating **computer vision**, **Gemini Vision**, **FastAPI**, and **Twilio WhatsApp automation** to provide accessible AI-powered assistance for farmers.

Implemented a **hybrid inference pipeline** combining local TensorFlow/EfficientNet disease prediction with Gemini Vision fallback analysis, improving diagnostic coverage and reliability.

Integrated weather insights, multilingual conversational workflows, and image-based crop diagnosis to deliver actionable agricultural recommendations through web and WhatsApp interfaces.

## TECHNICAL SKILLS

**Languages:** Python, C++, SQL

**AI & GenAI:** TensorFlow, NLP, Computer Vision, Semantic Search, RAG, AI Agents, LangChain, Sentence Transformers, Qdrant

**Backend:** FastAPI, Django, REST APIs, Supabase, Cloudinary

**Tools:** Git, GitHub, Docker

## EDUCATION

International Institute of Professional Studies, DAVV

Indore, India

Integrated M.Tech (Information Technology) - **8.71 CGPA**

Sept 2023 - Jun 2028

## ACHIEVEMENTS

- Top 8 - IBM SkillsBuild PBL (AI Agent Architect, 2025)** for *KrishiMitra-AI*.
- Built open-source AI agent systems using LangChain and Ollama, earning **14+ GitHub stars**.
- Achieved a peak **LeetCode Contest Rating of 1565**, placing in the **Top 30%** globally among contest participants.
- Solved **650+** DSA and competitive programming problems across multiple coding platforms. [🔗](#)
- Honorable Mention - DC Hackathon 2025** for *Perceptron Visualizer App*.

## CERTIFICATIONS

- Generative AI Mastery Workshop** - OpenAI Academy x NxtWave
- AI Agent Architect PBL Program** - IBM SkillsBuild
- Cloud Computing & GenAI Foundations** - Google Cloud