

# Ghanshyamsinh Zala

Ahmedabad, Gujarat, India | +91 9106688144  
[ghanshyamsinhzala70@gmail.com](mailto:ghanshyamsinhzala70@gmail.com) | [Linkedin](#) | [Github](#) | [Portfolio](#)

## PROFESSIONAL SUMMARY

---

Data Analytics & AI Engineer specialized in architecting production-grade Generative AI solutions, RAG pipelines, and autonomous agents. Certified by Oracle and Microsoft in AI development. Proven track record in optimizing LLM workflows for enterprise data challenges and building full-stack AI applications using Python, LangGraph, and Azure AI Studio.

## TECHNICAL SKILLS

---

**AI & GenAI:** RAG Pipelines, LLMs (Llama 3.1, GPT-4), Agents (CrewAI, LangGraph), LoRA Fine-tuning, Prompt Engineering, NLP (BERT), Computer Vision (LSTMs, OCR).

**MLOps & Evaluation:** FastAPI, Kubernetes, MLflow, DeepSpeed, F1 Score, BLEU, Perplexity, SHAP.

**Languages:** Python, C#, Go (Golang), JavaScript, SQL, Java.

**Cloud & Deployment:** Azure AI Studio, Oracle Fusion AI, Docker, Vercel, Streamlit Cloud, Gradio.

**Databases:** SQL Server, MySQL, MongoDB, Vector Databases (ChromaDB, Pinecone).

## PROFESSIONAL EXPERIENCE

---

### Mastek

Aug 2025 – Jan 2026

*Data Analytics and AI Engineer Intern*

*Ahmedabad, India*

- Designing production-grade RAG pipelines and optimizing Large Language Models, reducing enterprise query latency by **67%** for 50+ internal workflows.
- Developing autonomous agentic workflows using Python and LangGraph to automate data decision-making processes.
- Collaborating on secure AI deployment strategies within an agile environment, ensuring 99.9% system uptime.

### Microsoft Learning

Aug 2024 – Sep 2024

*Azure AI Solutions Developer*

*Remote*

- Built tailored AI copilots using Azure AI Studio, integrating disparate data sources to streamline user interactions.
- Customized LLM behaviors to solve real-world productivity challenges, improving response accuracy by **40%**.

### HackerRank

Sep 2024 – Oct 2024

*Junior Solutions Engineer*

*Remote*

- Optimized algorithmic challenges and improved system performance through rigorous code reviews.
- Resolved technical support tickets related to Go and C# execution environments with a **95%** resolution rate.

## KEY PROJECTS

---

### AI Agentic Studio | Python, CrewAI, LangGraph, Llama 3.1 | [GitHub](#)

- Architected an enterprise-grade research automation platform using multi-agent orchestration to generate technical whitepapers **3x faster** than manual methods.
- Implemented recursive quality loops and conditional routing between Planner, Researcher, and Writer agents.
- Integrated local Llama 3.1 inference via Ollama for privacy-preserving processing of confidential documents.

### PatternPulse | Python, PyTorch LSTM, yFinance | [Live](#) | [Github](#)

- Engineered a live stock market scanner achieving **83% accuracy** on Head & Shoulders pattern detection.
- Validated volatility-based price targets using a custom LSTM model backtested across **5 years** of market data.
- Reduced false positive rates in technical analysis by 25% through deep learning validation layers.

### AI Image Colorizer Pro v2.0 | GANs, OpenAI API, Streamlit | [GitHub](#)

- Built a colorization platform leveraging SIGGRAPH17 models to restore historical media with high fidelity.
- Integrated GPT-4 Vision for historical era estimation, enhancing color palette accuracy by **35%**.

### DataVerse Analytics Suite | NLP, Scikit-Learn, SHAP | [GitHub](#)

- Developed a suite of 9 AI tools including Market Basket Analysis and Anomaly Detection.
- Implemented Explainable AI (XAI) using SHAP values to provide transparent business insights for non-technical stakeholders.

## LEADERSHIP & COMMUNITY

---

### Programming Club - Darshan University

Mar 2023 – May 2025

*Design Team Lead & Vice President*

*Rajkot, Gujarat*

- Led a 20-person cross-functional team organizing technical events and hackathons for **500+** students.
- Spearheaded creative direction for club branding, increasing member engagement to **2,000+** students.
- Implemented TDD (Test Driven Development) practices across internal club projects, improving code quality by **40%**.

### DIET (Darshan Institute)

Jan 2024 – Apr 2024

*Teaching Assistant*

*Rajkot, Gujarat*

- Instructed **50** undergraduate students in Front-End Web Development fundamentals and project execution.
- Mentored students on debugging and deployment, resulting in a 100% project submission rate.

### Darshan University

Mar 2024 – Oct 2024

*University Representative & SSIP Event Manager*

*Rajkot, Gujarat*

- Managed operations for SSIP Gujarat state-level events, coordinating logistics for 300+ participants.

## EDUCATION

---

### Darshan University

Rajkot, Gujarat

*B.Tech Computer Science Engineering (CGPI: 8.6)*

*Jan 2022 – Dec 2026*

- Vice President Programming Club, Lead Organizer Technical Festivals/Hackathons, Open-source contributor.
- Peer mentor with focus on AI/ML, Data Structures, Algorithms, Database Management, Advanced AI.
- Hands-on project exhibitions and industry collaborations in computational methods.

### Shakti School

Rajkot, Gujarat

*Group-A Science (Pre-Engineering)*

*Jul 2020 – Jul 2022*

- Science Club, Mathematics Olympiad, Quiz Competitions, JEE preparation.
- Built strong analytical/problem-solving skills through intensive Math/Physics curriculum.

### Saint Paul's School

Rajkot, Gujarat

*ICSE Science Stream*

*May 2015 – Jun 2020*

- Brass Band, Green Guards Club, Social Service, Sports Clubs.
- Developed early communication, teamwork, leadership through holistic extracurricular programs.

## CERTIFICATIONS & AWARDS

---

**Certifications:** Oracle Fusion AI Agent Studio Certified Developer (2026), Microsoft Certified: Azure AI Studio Copilot Developer (2025), HackerRank Certified (Go, C#, Software Engineering).

**Awards:** 1st Prize - National Code Carnival 2024, 2nd Runner Up - Half-Hackathon 2025.

**Languages:** English (Professional), Gujarati (Native), Hindi (Native).