PRANAV GUJARATHI

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PROFESSIONAL SUMMARY

Generative AI and ML Engineer with 8+ years of experience architecting end-to-end AI/ML systems, specializing in multi-agent AI platforms, Generative AI, and digital health applications. Proven record of delivering measurable clinical and enterprise outcomes — including 37% Type 2 diabetes reversal, 80% cost savings, and 24x efficiency gains. Deep expertise in LLM-based agentic architectures, RAG pipelines, real-time biosensor data integration, and production-grade ML-Ops.

EDUCATION

University of the Cumberlands **May 2024 – December 2025**
MBA, Entrepreneurship

Indiana University – Bloomington **August 2019 – May 2021**
Master's, Data Science

Indian Institute of Technology Roorkee (IITR) **July 2014 – May 2018**
Bachelor's, Electrical Engineering

PROFESSIONAL EXPERIENCE

Twin Health **Austin, TX, USA**
Senior AI Engineer *January 2026 – Present*

- Architecting a production-grade multi-agent AI platform for personalized digital health, deploying specialized agents that deliver end-to-end diet, nutrition, and recipe recommendations — directly contributing to 37% Type 2 diabetes reversal outcomes across the patient population.
- Engineering a real-time continuous health monitoring agent that ingests and interprets lab results and wearable sensor data streams to surface personalized clinical insights, enabling proactive and data-driven patient intervention.

Cigna **Dallas, TX, USA**
Senior AI Engineer *September 2024 – December 2025*

- Spearheaded the development of a Generative AI-augmented Prior Authorization platform, focusing on Agentic AI systems, seamless platform integration, and robust ML-Ops pipelines.
- Orchestrated cross-functional teams to deliver scalable AI solutions, ensuring high performance, reliability, and compliance in medical care workflows.

Walmart **Dallas, TX, USA**
AI Engineer *October 2023 – August 2024*

- Designed and deployed a Generative AI-powered automation tool for exploratory data analysis (EDA) using voice and text commands, eliminating the need for dashboards and saving 130,000 associate work hours per week.
- Implemented a Retrieval-Augmented Generation (RAG) system to automate attribute extraction and competitor analysis, achieving 80% cost savings and improving turnaround time by 24x compared to manual methods.
- Led ML Engineering efforts for containerization, utilizing Docker and Kubernetes for scalable API deployments, ensuring high reliability and security.

Walmart **Dallas, TX, USA**
Data Scientist *January 2022 – October 2023*

- Deployed and managed a large-scale anomaly detection engine to production with real-time user feedback, achieving upwards of 70% capture rate.

- Achieved >80% explained variance and <5% global error by contributing to a novel causal-inference forecast model, making ~$1.6B in sales more explainable and interpretable.
- Built and deployed a REST API solution on Azure cloud with CI/CD best practices, optimizing inference runtime for production scale.
- Conducted PoCs for Generative AI use-cases including an automated competitor price mining tool and a text-based interface for forecast observation as a dashboard alternative.

ZS Associates **Los Angeles, CA, USA**

Data Science Associate *June 2018 – December 2021*

- Implemented a Natural Language Inference pipeline using deep learning and transformer models to extract domain-relevant inferences from textual data (news, publications), deployed as a cross-platform application with favorable client feedback.
- Deployed a novel ML-based marketing strategy solution using multivariate time series models and Linear Optimization, projecting 60% improvement in target reach and market penetration ROI.

Indiana University – Bloomington **Bloomington, IN, USA**

Research Engineer *January 2020 – May 2021*

- Mind Lab (NSF-funded): Designed and implemented CV and Deep Reinforcement Learning pipelines for behavioral experiments under Professor Justin Wood.
- IUPUI Data Lab: Conducted NLP research from ideation to publication under Prof. Sunandan Chakraborty.
- Kelley School of Business: Deployed an end-to-end MLOps pipeline — from PoC to GUI dashboard — leveraging Big Data libraries and cloud-based parallel computation.

SKILLS

Programming Languages: C/C++, Python (Expert), MySQL

Python Frameworks: PyTorch, TensorFlow, LangChain, LlamaIndex

Generative AI: Multi-agent systems, RAG (Retrieval-Augmented Generation), LLM-Ops

DevOps & Deployment: CI/CD, Kubernetes, Docker, Git

Cloud Platforms: AWS, Microsoft Azure, GCP

PUBLICATIONS

- Published "Controlled-rearing studies of newborn chicks and deep neural networks" at Shared Visual Representations in Human & Machine Intelligence workshop, NeurIPS 2021 — Best Paper Award.
- Published "Using Causality to Mine Sjögren's Syndrome related Factors from Medical Literature" at ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS).
- Awarded Luddy Outstanding Research Award for research contributions during MS degree. (May 2021)