

Ashish Gajjela

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EDUCATION

Northeastern University, Khoury College of Computer Science

Boston, MA

Master of Science in Artificial Intelligence, **GPA: 4.0 / 4.0**

Expected: May 2027

Jawaharlal Nehru Technological University

Hyderabad, India

Bachelor of Technology in Computer Science and Engineering (AI & ML), **GPA: 8.14 / 10.0**

December 2020 – May 2024

Relevant Coursework: Artificial Intelligence, Machine Learning, Deep Learning, Machine Learning Operations (MLOps), Reinforcement Learning, Natural Language Processing, Computer Vision, Programming Design Paradigm, Algorithms

EXPERIENCE

Eizen (Contractor for Rakuten SixthSense Cognitive AI)

Hyderabad, India

Machine Learning Engineer Intern

January 2024 – November 2024

- Designed and trained a **time-series fusion transformer** enhanced with **Neural Architecture Search (NAS)**, improving anomaly detection accuracy by **18%** on large-scale multivariate temporal datasets.
- Developed a **Graph Attention Network (GAT)** to model cross-entity dependencies, reducing **root cause analysis time by 60%**.
- Assembled containerized inference services using **FastAPI** and **Kubernetes** on **GCP**, enabling automated execution of **100K+ anomaly evaluations/day** with robust logging, monitoring, and CI/CD pipelines.
- Architected a **multi-agent conversational system** using LangGraph, orchestrating **tool-using agents** to retrieve and reason over **real-time observability data** (metrics, anomalies), enabling SREs to ask natural language questions and receive actionable answers.

EpsilonPi (Student Club)

Hyderabad, India

Generative AI Developer

August 2022 – June 2023

- Prototyped** and benchmarked **LLM-driven conversational AI systems** using **FLAN-T5** and **HuggingFace Transformers**, improving assistant usability by **20%**.
- Systematized** reusable pipelines for data preprocessing, fine-tuning, and deployment using **Python** and **NLTK**, reducing end-to-end prototyping time by **30%** across student research projects.
- Investigated **dialogue generation behavior in LLMs**, uncovering hallucination patterns and fine-tuning constraints, and distilled findings into actionable guidance for future experimentation.

TECHNICAL LEADERSHIP

Co-Founder & CTO, Twinly | website

March 2025 – July 2025

- Co-founded **Twinly**, an AI-powered productivity platform automating task management across Gmail, Notion, and Slack using secure API integrations, reducing user context-switching by **35%**.
- Architected distributed microservices using **FastAPI**, **PostgreSQL**, **AWS EC2/Lambda/S3**, and asynchronous event-driven workflows, achieving **98% uptime** with low-latency synchronization across cloud environments.
- Configured **OAuth2** and **JWT**-based authentication with CI/CD-enforced security checks, audit logging, and telemetry dashboards (Prometheus/Grafana) to ensure fault-tolerant, compliant system behavior.
- Orchestrated and fine-tuned **Phi-3 agentic AI workers** with telemetry-driven feedback loops, improving task relevance, memory recall, and multi-step action reliability by **30%**.
- Led a cross-functional team of four engineers and designers through agile sprints, delivering the MVP **three weeks early** and documenting end-to-end system architecture for scalable product iteration.

PROJECTS

ADK Driven Multi-Agent Conversational AI System | Python, ADK, Qwen

- Architected a modular **agentic conversational system** using **ADK**, enabling structured multi-agent coordination, contextual memory routing, and adaptive tool invocation.
- Integrated the **Qwen** large language model into multi-agent reasoning and tool-augmented workflows, improving dialogue accuracy by **25%** through optimized orchestration and prompt design.

Edge Based Multimodal Smart Lock System | TensorFlow Lite, Raspberry Pi, OpenCV

- Constructed a **FaceNet-powered facial recognition module** on **Raspberry Pi**, achieving **92% accuracy** across 1,000+ real-world edge authentications.
- Integrated **gesture recognition** with OpenCV and multimodal fusion, improving lock reliability by **28%** under varying lighting and occlusion conditions.

Multimodal Voice & Sign Language Personal Assistant | TensorFlow, Porcupine, OpenCV

- Built a **voice and sign-language assistant** achieving **87% command accuracy** across 2,000+ test trials using **TensorFlow** and **OpenCV**.
- Automated **15+ system workflows** for scheduling, application launching, and OS control, improving task completion efficiency by **25%**.

SKILLS

Programming & Tools:

Python, SQL, Bash, Git, TypeScript, API Design, Agile/Scrum

ML & Deep Learning:

Transformers, Time-Series Modeling, PEFT/LoRA, Embedding Models, Neural Architecture Search (NAS)

Frameworks & Libraries:

PyTorch, TensorFlow, Keras, scikit-learn, pandas, NumPy, OpenCV, TFLite, ONNX, Flask/FastAPI

LLMs & Agentic AI:

LangGraph, LangChain, Google ADK, RAG Pipelines, Prompt Engineering, Multi Agent Systems

MLOps:

Docker, Kubernetes, MLflow, CI/CD, Model Serving, Experiment Tracking

Cloud & Data Infrastructure:

AWS (EC2, Lambda, S3), Google Cloud Platform (GKE, Cloud Run, Pub/Sub), Redis, Cassandra, PySpark