

MALLIKARJUN AITHA

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PROFESSIONAL SUMMARY

Data professional with 3+ years of experience optimizing pipelines & analytics across enterprise, public safety, financial and nonprofits environments. Delivered 20%+ gains in process efficiency and built 125+ real-time deployments—ready to drive business ROI in 30 days.

PROFESSIONAL EXPERIENCE

Data Analyst — *University of New Haven, West Haven, CT*

Oct 2024 – Present

- Automated ETL pipelines (Python, AWS, PostgreSQL) for New Haven Police Department; eliminated 15+ hours/month of manual work
- Detected high-crime zones using ArcGIS, Hotspot Analysis using KDE, raster and vector analysis using DBSCAN; improved precinct allocation efficiency by 20%
- Built 10+ predictive dashboards with ARIMA/Random Forest, enhanced proactive policing decisions

Student Associate — *Sodexo, West Haven, CT*

Jan 2024 – May 2025

- Tracked inventory & KPIs for 500+ daily meals, improved operational efficiency via Power BI dash
- Audited budgets, reducing food waste by 12% through better forecasting and cost analysis

Data Intern — *Downtown Evening Soup Kitchen, New Haven, CT*

Jul 2024 – Dec 2024

- Streamlined donor ETL pipelines; increased data integrity by 30% across fundraising platforms
- Forecasted donations via Python, Excel and Power BI models; cut food waste by 25%, enhanced inventory planning and improved supply-demand alignment across meal programs
- Delivered 5+ real-time dashboards; improved visibility on volunteer and meal KPIs by 30%

Associate Data Engineer — *Cognizant Technology Solutions, Hyderabad, India*

Sep 2021 – Jul 2023

- Processed 10M+ AMEX customer logs via Python/SQL across EMEA, APAC & US; enabled real-time A/B testing and localized insights, boosting CTR by 18% in 15+ countries
- Deployed 125+ AMEX campaigns (AEM, JSON, React.js, Git); reduced offline dependency by 40%
- Automated content ops across 300+ web requests; delivered updates for 15+ multilingual regions

EDUCATION

M.S. Data Science — University of New Haven, CT | GPA: 3.86/4.0

Courses: Data Analytics, Power BI, Natural Language Processing, Machine Learning, AI, Data Engineering

B.Tech, Electronics & Communication Engineering — JNTU, Hyderabad | GPA: 3.5/4.0

CERTIFICATIONS

- LLM Applications with Prompt Engineering — NVIDIA (2025)
- Power BI & Dashboarding — University of New Haven (2024)
- Adobe Experience Manager Sites Developer — Adobe (2024)

TECHNICAL PROJECTS

- Mind-Mate: Mental Health Chatbot (LangChain, HuggingFace, FAISS)**
Developed Retrieval-Augmented Generation (RAG) based chatbot using LangChain and open-source LLMs. Evaluated chatbot accuracy using coherence and perplexity metrics
- Real-Time Smart City Monitoring (AWS, Spark, Kafka)**
Designed a streaming pipeline using Spark, Kafka and AWS S3 to process 10K+ daily IoT data points; reduced latency by 40% and visualized traffic insights in Power BI
- Incept-Face (Gradio, MTCNN, InceptRESNET)**
Developed a facial recognition pipeline using InceptionResNetV1 and MTCNN; deployed with Gradio for real-time inference
- Himalayan Climbing Trends Analysis (Tableau, R, SQL)**
Analyzed data to reveal peak trend and Everest's 185 summit-related death via interactive dashboard