

# MALLIKARJUN AITHA

(203)-737-0149 · mallikarjunaitha@gmail.com · New York Metropolitan Area  
[mallikarjunaitha.com](http://mallikarjunaitha.com) · [linkedin/mallikarjun-aitha](https://www.linkedin.com/in/mallikarjun-aitha) · [github.com/mallikarjun](https://github.com/mallikarjun)

## PROFESSIONAL SUMMARY

Data professional with expertise in GIS spatial analysis, ETL pipelines, and cloud-based data solutions. Proven success in optimizing data workflows and delivering insights through tools like ArcGIS, Spark, and AWS. Adept at collaborating with cross-functional teams to solve complex data challenges.

## TECHNICAL SKILLS

**Programming:** Python, SQL, R, Shell Script  
**Data Engineering:** Apache Spark, AWS (Athena, S3), Azure, Databricks, Kafka, Hadoop

**GIS Tools:** ESRI ArcGIS, GeoPandas  
**Visualization:** Power BI, Tableau, Matplotlib  
**Cloud Platforms:** AWS, Azure

## PROFESSIONAL EXPERIENCE

**Center for Analytics, University of New Haven** Oct 2024 - Present  
**GIS Research Assistant**  
Conducted spatial analysis using ArcGIS for crime pattern visualization, improving police resource allocation by 20%. Automated data ingestion pipelines with Python and AWS, reducing manual effort by 15 hours/month. Built 10+ interactive dashboards integrating raster/vector layers for real-time crime hotspot tracking.

**Downtown Evening Soup Kitchen Inc.** June 2024 - Dec 2024  
**Data Analyst Intern**  
Designed ETL workflows to consolidate donor data, inventory, and resources, improving data accuracy by 30%. Created Power BI dashboards to visualize KPIs like meal distribution efficiency and volunteer retention. Enhanced data capture processes and maintained dashboards to track and report key performance indicators (KPIs)

**Cognizant Technology Solutions** Dec 2021 - July 2023  
**Software Associate**  
Developed, operated and supported American Express bank webpages, managing data driven promotional campaigns and UI updates across APAC, EMEA, LACC, and US regions  
Handled an Online Enrollment Tool product, created 125+ zero-escalation AMEX promotional campaigns globally using AEM, JSON, React.js, HTML, and Putty, which helped reduce offline promotions by 56%

## TECHNICAL PROJECTS

**Real-Time Smart City Monitoring (AWS, Spark, Kafka)**  
Built a streaming pipeline processing 10k+ IoT data points/day, reducing latency by 40%. Visualized traffic patterns via Power BI, aiding urban planners in congestion management.

**GIS Crime Hotspot Analysis (ArcGIS, Python)**  
Designed dashboards incorporating vector layers, raster imagery, and detailed beat maps, enhancing the visualization of crime patterns and hotspots, which improved project reporting efficiency by 20%

**InceptFace (Facenet-pytorch, Gradio)**  
Facial recognition system using InceptionResNetV1, MTCNN for detection, custom dataset, and robust preprocessing, trained with Adam optimizer and Cross Entropy Loss.

## EDUCATION & CERTIFICATIONS

**M.S. in Data Science**  
University of New Haven | GPA: 3.8/4.0

**Bachelor's in Electronics and Communication Engineering**  
Jawaharlal Nehru Technological University Hyderabad

## EXTRACURRICULAR ACTIVITIES

Treasurer, Indian Student Council @UNewHaven

Go-Getter Award from Graduate Office, UNewHaven

Campus Connector, UNewHaven