MALLIKARJUN AITHA

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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, Hadoop, Kafka, AWS (Athena, S3), Azure, Databricks

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, improving data accuracy by 30%.
Created Power BI dashboards to visualize KPIs like meal distribution efficiency and volunteer retention.

Cognizant Technology Solutions   **Dec 2021 - July 2023**
Software Associate

Developed data-driven AMEX promotional campaigns using AEM and React.js, boosting card visibility by 110% globally.
Automated campaign deployment process, reducing 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)
Performed rigorous raster analysis and mapped crime density with 90% accuracy, influencing citywide patrol strategies.

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