

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
- **Certifications:** Dean's Scholarship (Data Science)

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)

- Mapped crime density with 90% accuracy, influencing citywide patrol strategies.

Water Quality Prediction (Python, Machine Learning)

- Achieved 90% accuracy in predicting water potability using Machine Learning models on 3k+ water samples.

EDUCATION & CERTIFICATIONS

M.S. in Data Science | University of New Haven

GPA: 3.8/4.0 | Dean's Scholarship

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