Mallikarjun Aitha

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SUMMARY:

Data professional with over 3+ years of experience in data analytics and engineering across enterprise, public safety, finance, and nonprofit domains. Expertise in automating ETL pipelines, optimizing analytics dashboards, and enhancing operational efficiencies using Python, SQL, Power BI, ArcGIS, Tableau, and AWS. Experienced in managing and optimizing databases such as PostgreSQL, MySQL, and MongoDB, ensuring efficient data storage and retrieval. Skilled in deploying scalable solutions on AWS, GCP, and Azure, and implementing CI/CD pipelines using Jenkins in Agile environments. Proven track record of delivering 125+ real-time solutions and achieving 20%+ process efficiency improvements.

EDUCATION:

Master of Science in Data Science   **May 2025**
University of New Haven, CT | GPA: 3.9
Bachelor of Engineering   **July 2021**
Jawaharlal Nehru Technological University, India | GPA: 3.7

TECHNICAL SKILLS:

Languages:	Python, SQL, R, DAX, JavaScript
Databases:	MySQL, PostgreSQL, Oracle, MongoDB
Frameworks & Libraries:	LangChain, HuggingFace, React.js, AEM
Tools:	Power BI, Tableau, ArcGIS, Excel, Jupyter, Git, Jenkins, Postman, JIRA, VS Code
Methodologies:	Agile, DevOps, ETL workflows, Data Integration, Automation
Cloud & DevOps:	AWS (EC2, S3, Lambda, ECS), Kafka, Spark, Docker, Azure

EXPERIENCE:

Data Analyst   **Oct 2024 – Current**
University of New Haven, USA
Project: New Haven Police Department Crime Monitoring System

- Developed and maintained a robust crime monitoring system for NHPD using Python, AWS, ArcGIS, and PostgreSQL, enabling real-time incident tracking and eliminating 15+ hours of manual reporting per month.
- Designed and optimized ArcGIS dashboard layers using Python, improving incident query performance by 35% and enhancing response efficiency for police staff.
- Automated ETL workflows using Python, SQL, Jenkins, and Apache Airflow to extract and transform data from RMS and public APIs into ArcGIS-compatible schema, reducing manual updates by 90% and enabling 24/7 real-time data access for 200+ officers.
- Performed spatial analysis using DBSCAN and raster/vector processing to identify optimized patrol zones, improving officer response time and visibility by 15%.
- Created 5+ interactive GIS dashboards with predictive analytics (KDE, ARIMA, Random Forest) to support crime forecasting and resource allocation decisions.

Data Analyst – Campus Dining Operations   **Jan 2024 – May 2025**
Sodexo, USA

- Analyzed transaction data across multiple dining locations to identify peak hours, optimize staffing, and improve food truck performance, boosting operational efficiency by 10% and enhancing event planning.
- Built dynamic Excel dashboards and led inventory audits to track usage, reduce waste by 12%, and improve order accuracy for 500+ daily meals, while ensuring HACCP compliance through proactive log monitoring.

Data Analyst   **July 2024 – Dec 2024**
Downtown Evening Soup Kitchen, USA

- Enhanced product management efficiency by implementing scannable cards for data migration, reducing data manipulation time by 66% for statistical modeling using SQL and AWS, and improving visualization of user stories through KPIs in Tableau.
- Designed and maintained monthly business reports with KPI for pantry operations, including interactive Tableau dashboards and SQL to analyze and make targeted adjustments, resulting in a 12% increase in the guest satisfaction index.

Associate Data Engineer   **Sept 2021 – July 2023**
Cognizant Technology Solutions, India
Project: AMEX Global Commercial Services Analytics System

- Developed and maintained multilingual marketing campaign data pipelines for American Express using AEM, Python and SQL, processing over 1M+ customer logs across US, EMEA, APAC, and LACC regions to enable A/B testing and nation-specific insights.
- Engineered and optimized data transformation workflows supporting click-through rate (CTR) analysis, increasing campaign engagement by 18% across 15+ international markets through localized performance tuning.
- Built and maintained administrative SQL scripts to manage credit card user data in internal admin DB systems, supporting environment-specific QA (E3, UAT), campaign personalization, and compliance reporting.
- Automated the deployment of 125+ targeted, multilingual marketing campaigns using OneCMS, Adobe Experience Manager (AEM), React.js, and JSON templates, reducing offline operations by 40% and accelerating global content delivery timelines.
- Contributed to sprint planning and agile ceremonies, working closely with QA and DevOps teams to test campaign delivery pipelines, address bugs, and improve delivery velocity through CI/CD best practices.

CERTIFICATIONS: LLM Applications with Prompt Engineering (NVDIA DL Institute), SQL Advanced(Hacker Rank)