

Allauddin Shaik (Data Engineer | MLOps)

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Professional summary:

Full-stack data engineer with nearly 4 years of experience in building scalable ML solutions, data pipelines, and cloud infrastructure. Expertise in designing and deploying microservices, APIs, and ETL workflows across cloud services (GCP and Azure), with strong DevOps capabilities in CI/CD automation and containerization.

Skills:

- **Programming:** Python, R, SQL (PostgreSQL), NoSQL (Firestore), Bash, R Shiny.
- **Cloud & Deployment:** GCP, AWS, Docker, Airflow, Restful APIs, ETL Pipelines, and CI/CD.
- **AI & ML:** Marketing Mix Modelling, LangChain, RAG, chatbot development, LLM scraping and geo-analysis.
- **Visualization & Frontend:** Power BI, Datorama, React and shiny web applications.

Experience: Dentsu Global Services (Remote) - (2022 – Present)

Senior Analyst – Data Science (Dentsu Global Services acquired Paragon Digital Services)

- Built an **MMM (Bayesian inference)** model simulation platform that enables business users to forecast media performance. Designed the backend services, data architecture, and **workflow orchestration to automate the model-building process**.
- **Serverless Data Pipeline:** Designed **asynchronous microservices** using Google Cloud Jobs, Cloud Storage, and Postgres DB to process heavy computations; decoupled backend operations from UI and enabling **scalable data processing**.
- **On-Demand ETL Pipeline:** Developed Python-based ETL workflow to extract and transform SQLite data from **Cloud Storage**, load into **OLTP** (Postgres DB), and automate data validation reporting.
- **Airflow Infrastructure:** Deployed and managed Apache Airflow on **GCP Virtual Machine** for **ETL orchestration**, implementing on-demand pipeline execution and scheduling automation.
- Implemented automated **CI/CD pipeline** for backend services on Azure, developed **unit and integration test** cases to validate the code and prevent faulty code from reaching production.
- Worked on **RAG based chatbot** using **LangChain** to generate personalized, context-aware responses by querying product-specific database records in real-time.
- Implemented a dedicated backend layer **BFF (backend for frontend)** for the ML application.
- Designed **data models** for the **analytics database (OLAP)** and developed dashboard to track descriptive **media insights**, that helped to understand **media performance and contribution across the sales funnel**.

Analyst – Data Science (Paragon Digital Services)

- Automated recurring reporting processes, achieving an **80% reduction in manual effort** and significantly improving efficiency.
- Built an employee utilization dashboard, enabling precise billing and optimizing workload distribution by **identifying underutilized resources** across teams.
- Build an interactive survey insights dashboard to analyse rating data, with customized tooltips that dynamically surface respondent comments, improving stakeholder understanding of qualitative feedback.
- Designed and maintained Datorama dashboards, conducting a thorough audit in collaboration with stakeholders to identify inactive dashboards and redundant data sources, which reduced **annual service costs by 70%**.

Achievements:

- Published a **research paper** entitled “Seismic Analysis of Multi-Storey Building by Response Spectrum” in **IJERT, Volume – 8, Issue – 10.**
- Regional finalist in the “**International Design Competition**” (IDC) hosted at SVCE Bangalore.