

Sai Koushik Akula, Data Engineer

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OBJECTIVEResults-driven Data Engineer with 2+ years of experience, specializing in Python, SQL, BigQuery and ETL pipelines. Skilled in building scalable data solutions, optimizing workflows, and ensuring data integrity. Seeking to leverage my expertise in data modeling, automation, and cloud technologies to drive business insights.

SKILLS	C, Python, SQL	Power BI, Tableau
	BigQuery, Snowfalke, MySQL	API Development, Git, GitHub
	GCP, AWS, CI/CD Pipelines	Problem-Solving,
	Control-M, Airflow, ETL Pipelines	Communication, Critical Thinking

EXPERIENCE

Nov 2023 — Jan 2025	Technical Associate, Sears Holdings India	Hyderabad	<ul style="list-style-type: none">Designed and maintained 50+ scalable ETL pipelines using Python, PySpark, and Shell, optimizing data processing by 60%.Developed and optimized SQL queries in BigQuery and Snowflake, reducing execution time by 50%.Built and optimized data workflows on AWS, GCP using Airflow, Control-M, and CI/CD pipelines.Created interactive dashboards in Power BI, Tableau enabling data-driven decision-making.
Nov 2022 — Nov 2023	Associate Software Engineer , Sears Holdings India	Hyderabad	<ul style="list-style-type: none">Automated data extraction and loading into GCP using Python & Shell scripts, reducing manual effort by 80%.Managed 50+ daily batch jobs in Control-M and Airflow, ensuring a 99.9% success rate.Deployed EC2 services on AWS, reducing infrastructure costs by 20% through optimized resource allocation.Enhanced data pipeline efficiency through ETL performance tuning, ensuring seamless data processing and analytics.
Aug 2022 — Oct 2022	Software Intern, JPMorgan Chase & Co	Virtual	<ul style="list-style-type: none">Set up a local dev environment, resolving dependencies and fixing repository issues.Utilized JP Morgan Chase’s open-source library (Perspective) to build real-time data visualization for financial traders.

PROJECTS

Jul 2024 — Oct 2024	Automating Citi Bank Data Integration and Transformation for Analytical Insights	Hyderabad	<ul style="list-style-type: none">Developed an end-to-end scalable data pipeline for Citi Bank, processing 10K+ XML-encoded .txt records daily using Python and Shell scripting.Engineered ETL workflows to automate XML extraction, transformation (XML-to-CSV), and loading into BigQuery, optimizing data processing efficiency.Integrated Airflow for task orchestration, ensuring real-time analytics and business intelligence insights.Optimized pipeline performance on cloud platforms (AWS, GCP,) to support large-scale data processing and reporting.
Nov 2024 — Jan 2025	Samsara Data Integration Automation	Hyderabad	<ul style="list-style-type: none">Developed a real-time ETL pipeline for Samsara APIs using Python and PySpark, processing 1K+ records per hour.Integrated pipeline with cloud platforms (AWS, GCP) and orchestration tools (Airflow, Control-M) for seamless automation.Reduced manual processing time by 12+ hours per week, enhancing data availability for analytics and business decision-making.

EDUCATION

Jul 2019 — Jul 2023	B.Tech in Information Technology, Institute of Aeronautical Engineering	Hyderabad
Jun 2017 — Apr 2019	Intermediate(M.P.C), Narayana Junior collage	Hyderabad

CERTIFICATIONS

Jul 2022	Amazon AWS Technical Essentials, Amazon
Dec 2022	ORACLE Databases for Developers Certification, ORACLE

EXTRA-CURRICULAR ACTIVITIES

Jan 2021 — Jun 2023	E-DAM Technical Community member, Institute of Aeronautical Engineering	Hyderabad
	Worked as a mentor for technical communities focused on Development and Designing, guiding students in project implementation and development practices.	
Mar 2022 — Jun 2023	E-Cell Entrepreneurship Club member, Institute of Aeronautical Engineering	Hyderabad
	Actively participated in initiatives fostering innovation, business strategy, and leadership development.	