

# MD ISTIAQ AHMED

(573)-730 2729 | [mdistiaqahmed0@gmail.com](mailto:mdistiaqahmed0@gmail.com) | [linkedin.com/in/ahmed-istiaq](https://linkedin.com/in/ahmed-istiaq) | [github.com/iaifti](https://github.com/iaifti)

## EDUCATION

### Southeast Missouri State University

Bachelor of Science in Computer Science

Cape Girardeau, MO

Jan. 2022 – Dec. 2025

## EXPERIENCE

### Software Engineer & Co-Founder

Cran US LLC

Oct 2024 – Jun 2025

Cape Girardeau, MO

- Co-founded a customer-facing SaaS product serving paying clients; owned the full development lifecycle from requirements gathering through production deployment and post-launch iteration.
- Partnered directly with early customers to translate qualitative business needs into prioritized technical solutions, enabling rapid product iteration.
- Built foundational data infrastructure and reporting workflows to track user behavior, feature adoption, and operational performance.

### Data Entry Assistant

Southeast Missouri State University

Sep 2024 – Dec 2025

Cape Girardeau, MO

- Managed patron records in CRM system, ensuring high data quality and consistency.
- Developed Excel-based tools to coordinate schedules and optimize team workflows.

### Computer Science Tutor

Southeast Missouri State University

Jan 2023 – Apr 2023

Cape Girardeau, MO

- Tutored students in Python, Java, Unix/Linux, and statistics (z-tests, t-tests, hypothesis testing) in both individual and group sessions.
- Helped non-technical students debug code and strengthen analytical problem-solving techniques.

## PROJECTS

### GitHub Activity Pipeline | SQL, Python, Airflow DAG, AWS(S3, IAM), Snowflake, dbt, docker

Dec 2025 – current

- Built an end-to-end ELT pipeline ingesting 2,000+ GitHub events daily via REST APIs using Python, orchestrated with Apache Airflow on a 6-hour schedule and maintaining 98% pipeline reliability.
- Designed a scalable AWS data lake using S3 date-based partitioning and Snowflake external stages; applied LATERAL FLATTEN for nested JSON processing, cutting query costs by 40% through partition pruning.
- Built dimensional models in dbt transforming nested JSON into analytics tables with 12+ data quality tests ensuring 100% accuracy and deployed at \$8/month operational cost through AWS optimization.

### SaaS Subscription Analytics Warehouse | SQL, dbt, Snowflake, Power BI

Sep. 2025 – Nov. 2025

- ETL project designed with dimensional data warehouse modeling SaaS subscription business logic with synthetic payment data (500K+ transactions, 100K customers) using star schema with daily-grain fact table to support both point-in-time MRR snapshots and cohort trend analysis.
- Built 15+ dbt models calculating MRR components and cohort metrics and used Power BI executive dashboard visualizing growth trends, churn evolution, and retention heatmaps.
- Created 40+ dbt tests validating referential integrity, metric calculation logic, and business rules.

### Predictive Analytics Pipeline | Python, Pandas, SQL, Scikit-learn

Aug 2024 – Dec 2024

- Built end-to-end analytical workflow from raw data extraction to model evaluation for calorie expenditure regression problem, simulating analytics engineer responsibilities for model enablement.
- Designed data preprocessing pipeline with feature scaling and PCA dimensionality reduction based on exploratory analysis of feature distributions and multicollinearity patterns.
- Evaluated multiple regression approaches (linear, ridge, random forest) using train/test methodology, comparing MSE, MAE, and  $R^2$  metrics to recommend best-fit model for production use case.

## TECHNICAL SKILLS

**Languages:** SQL, Python, C++, JavaScript, typescript

**Data & Analytics:** SQL, Snowflake, dbt, Pandas, Power BI, Data Warehousing, Data Lake, Dimensional Modeling

**Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn

**Developer Tools:** Git, GitHub, RestAPI, Apache Airflow, Excel, VS Code, Jupyter Notebook, AWS(S3, IAM), Docker