Rahul Mondal

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Summary

Analytical and results-driven Data Analyst with hands-on experience working with large, real-world datasets to support data-informed business decisions. Skilled in SQL, Python, and Power BI, with a strong background in exploratory data analysis, KPI reporting, and dashboard development. Proven ability to translate business goals into actionable insights through co-op and research experience. Currently seeking Data Analyst, Business Intelligence, or Analytics roles.

Education

The University of Alabama   **Dec 2026**
Bachelor of Science, Computer Science

- **GPA:** 3.72/4.00
- **Coursework:** Data Structures & Algorithms, Database Management Systems, Data Science, Data Mining & Machine Learning, Probability & Statistics, Software Engineering, Operating Systems, Mathematics for AI, Linear Algebra

Skills

- **Programming Languages**: Python, SQL, C/C++, R (basic)
- **Data Tool**: Power BI, Tableau, Snowflake, Databricks, Pandas, NumPy, Jupyter Notebook, Excel (advanced)
- **Other Skills**: Data Analysis, Data Modeling, Dashboard Development, Exploratory Data Analysis (EDA), KPI Reporting, Hypothesis Testing, ETL
- **Technical Tools**: GitHub, Jira, VS Code, PowerPoint, Antigravity

Work Experience

Alabama Credit Union   **May 2025 - Present**
Data Analyst Co-op   *Tuscaloosa, Alabama*

- Conduct financial data analysis using SQL and Python to identify member trends and generate insights that optimized product offerings.
- Designed and delivered interactive Power BI dashboards enabling executives to monitor KPIs and drive data-informed decisions, increasing strategic engagement by 25%
- Automated ETL workflows and reporting pipelines, reducing manual reporting time by 40% and ensuring data accuracy.
- Partnered with cross-functional teams to deliver data-driven recommendations that improved financial performance and member engagement.

TRIP Lab, The University of Alabama   **Jun 2023 - May 2025**
Undergraduate RA   *Tuscaloosa, Alabama*

- Processed and analyzed 50GB+ of simulation data, uncovering behavioral insights that informed transportation safety strategies.
- Developed custom Python models and visualizations to transform raw simulation data into insights supporting federally funded research projects.
- Prepared reports and presentations for faculty and research stakeholders, translating complex findings into clear, actionable recommendations.

OTIDE, The University of Alabama   **Jan 2024 - May 2025**
Student Assistant

- Analyzed support ticket data to identify recurring issues and trends, improving workflow efficiency and response time.
- Created Excel-based tracking reports and dashboards to monitor ticket volume and resolution performance.
- Implemented process improvements that streamlined operations and improved client satisfaction for 1,000+ users.

Projects

Daily Data Warehouse Solution   **May 2025**
Alabama Credit Union

- Built and automated daily ETL pipelines using SQL and Python to centralize banking data and support reporting accuracy.
- Optimized SQL queries and validation scripts, reducing manual reporting time by 40% and improving data consistency.

Member Metrics Analysis Dashboard   **Jun 2025**
Alabama Credit Union

- Designed and deployed an interactive Power BI dashboard tracking KPIs such as member acquisition, churn, and loan activity
- Increased executive engagement in data-driven initiatives by 25% by enabling real-time access to insights.

Behavior Simulation Analysis   **Sep 2023 - Nov 2024**
TRIP Lab - The University of Alabama

- Developed Python scripts to clean, transform, and model large-scale driving simulation datasets.
- Identified behavioral patterns that contributed to published research on distracted driving and transportation safety.