

# RAJ VARSHITH REDDY MALGIREDDY

Data & Business Analyst

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## PROFESSIONAL SUMMARY

A results-oriented Data and Business Analyst with a Master's in Computer Science, skilled in bridging the gap between technical teams and business stakeholders. Proven ability to translate business requirements into technical solutions, manage project documentation, and deliver actionable insights through advanced data analysis and BI dashboards.

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## CORE COMPETENCIES & SKILLS

- **Business Analysis:** Requirements Gathering, Stakeholder Communication, User Stories & Acceptance Criteria, Business Requirements Documentation, Jira Project Management
  - **Technical Skills:** Python, SQL, SAS, Power BI (Power Query, DAX), Azure Data Lake, Azure SQL Database, Hadoop, Alteryx, Google Analytics
  - **Data Analysis & Management:** ETL Process Design, Database Design & Tuning, ER Diagrams & Data Modeling, Data Validation & Back-End Testing, Statistical Analysis
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## PROFESSIONAL EXPERIENCE

**Data Analyst | Client: Fortis Healthcare, Gurgaon, India**

*June 2020 - August 2021*

### Business Analysis & Stakeholder Management:

- Translated business requirements into technical specifications for **database design, creating ER diagrams** and logical/physical data models.
- Authored and managed project artifacts in **Jira**, including user stories, acceptance criteria, and task assignments.
- Served as the primary liaison between business stakeholders and the front-end development team to ensure data-driven features aligned with user needs.
- Delivered key performance metrics and trend analysis to stakeholders through custom reports and dashboards in **Google Analytics**.

### Data Engineering & Analytics:

- Engineered and deployed robust **ETL pipelines** to migrate data from mainframe sources, enabling critical new reporting functions.
  - Built and maintained **16 interactive Power BI dashboards** using **Power Query** and advanced **DAX measures** to track key business metrics.
  - Automated **data cleaning** and **transformation** workflows using **Python**, reducing data preparation time by **30** hours weekly.
  - Improved data retrieval performance by **91%** by optimizing **Azure SQL Databases** through **indexing** and **query tuning**.
  - Conducted extensive back-end testing and data validation with complex **SQL queries**, reducing data discrepancies by **86%**.
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## ACADEMIC & PERSONAL PROJECTS

- **Medical Insurance Cost Analysis:** Analyzed insurance cost drivers using Python and regression models. (Technologies: Pandas, Scikit-Learn, Statsmodels)
- **Emotion Detection with MobileNetV2:** Built a high-accuracy emotion recognition model using transfer learning. (Technologies: TensorFlow, Keras, MobileNetV2)
- **Advertising Sales Prediction:** Predicted sales outcomes based on ad budgets using linear regression. (Technologies: Python, Scikit-Learn)

- **Database Independent Report Generator:** Developed a universal SQL client in Java with GUI for cross-database querying and CSV import/export functionality. (Technologies: Java, SQL, Swing GUI)
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## EDUCATION & CERTIFICATIONS

**University of Missouri-Kansas City | Kansas City, MO** Master of Science, Computer Science | Jan 2022 - Dec 2024 Recipient of the Umsystem Grant scholarship.

**Microsoft Certified: Power BI Data Analyst Associate**

Issued: August 2025

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## LEADERSHIP & VOLUNTEERISM

**Teaching Assistant** | University of Missouri-Kansas City | Jan 2023 - Dec 2023

**Student Mentor** | Computer Science Leadership Council, UMKC | Aug 2023 - Dec 2023