

MADHUMITHA MURALI

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PROFESSIONAL SUMMARY

Detail-oriented and data-driven professional with a versatile background in data analysis, engineering, and project management. Proficient in SQL, diverse data visualization tools, and ETL processes to extract actionable insights from complex datasets. Skilled in ensuring data integrity, utilizing analytical and engineering expertise to drive impactful outcomes in data-centric environments.

EDUCATION

Master of Science in Information Systems

Iowa State University, Ames, Iowa, United States | *CGPA: 3.67*

August 2022 – Present

Bachelor of Engineering in Computer Engineering

SIES Graduate School of Technology, India | *CGPA: 8.19 / 10*

June 2015 – May 2019

PROFESSIONAL EXPERIENCE

Senior Data Engineer, LTIMindtree, Mumbai, India

September 2019 - July 2022

- Received 'Outstanding Performer' recognition for two consecutive years, reflecting dedication, consistency, exceptional problem-solving skills, and consulting support for stakeholder engagement.
- Managed ETL pipelines using Informatica PowerCenter to handle and process a substantial quantity of 40 million records, ensuring efficient data extraction, transformation, and migration.
- Leveraged innovative communication skills, collaboration, leadership, and teamwork to guide a 10-member cross-functional team, ensuring the data warehouse's success while prioritizing exceptional customer service in line with business objectives.
- Optimized Informatica mappings and SQL database handling in SQL Server Management Studio, resulting in a notable 25% increase in data processing efficiency, enhancing data reliability, and improving overall analytics team operations.

INTERNSHIP AND ASSISTANTSHIP

Data Research Analyst Intern, Kingland Systems LLC, Iowa, United States

June 2023 – December 2023

- Spearheaded data revalidation initiatives, driving a 15% enhancement in automation efficiency for in-house profiling services, effectively aligning data quality, and implementing innovative measures to optimize economics within the process.
- Conducted comprehensive due diligence procedures, employing meticulous research methodologies to furnish validated data crucial for strategic decision-making.
- Implemented measures to maintain data integrity, drive operational efficiency, and ensure compliance with industry-leading data quality standards while managing and mentoring juniors for seamless integration and organization through training sessions.

Graduate Teaching Assistant, Iowa State University, Iowa, United States

August 2022 – December 2023

- Instructed 1200 students in employing advanced technical techniques within Microsoft Excel spreadsheets and Microsoft Access databases, enabling comprehensive data manipulation, analysis, and business application proficiency.

SKILLS

- | | | | |
|-----------------------|----------------------|---------------------|-------------------------|
| • SQL | • Data Cleaning | • Tableau | • Jira |
| • Data Transformation | • Data Validation | • Python | • Agile / Scrum |
| • Data Mining | • Data Documentation | • Microsoft Office | • Requirement Gathering |
| • Data Modeling | • Data Storytelling | • Microsoft Azure | • Quality Assurance |
| • Data Integration | • Power BI | • Microsoft Project | • Project Coordination |

ACADEMIC PROJECTS

Flight Analysis: Unlocking Business Insights from Airline Performance Data

- Executed ETL processing on a dataset of 6 million flight records using Microsoft Azure, resulting in a meticulously curated SQL database. Utilized Power BI for Business Intelligence analysis and visualization, uncovering trends in flight performance metrics and delivering valuable insights for informed business decisions.

Excel Solver: Strategic Production & Transportation Optimization

- Applied Excel Solver for optimizing production and inventory of specialized tables across quarters, minimizing costs, and meeting variable demands. Additionally, streamlined transportation logistics for specialized stools, minimizing costs across supply, demand, and intermediate points.

Predictive Maintenance of Heavy Commercial Vehicles Using ML and Data Analytics

- Designed the front-end UI development of a website by integrating raw vehicle data from a client's notebooks into the database, leveraging it to predict vehicle breakdown probability, optimizing maintenance efficiency.
- Published findings from the project in the International Journal of Computing Science, contributing substantively to the field's advancements.