

# Mahadharsan Ravichandran

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Data professional with 2 years' experience delivering actionable insights and data solutions at Fortune 500 companies like Waste Management, Formlabs, and Cognizant. Led a \$1M data integration project and initiatives generating \$75K+ in operational savings, enabling faster, data-driven decisions.

## EXPERIENCE

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### Data Analyst Engineer | Waste Management | Hartford, CT

May 2025 - Aug 2025

- Led a \$1M GotJunk post-acquisition data integration, validating **500K+ records** in Snowflake for enterprise reporting
- Optimized SQL transformations in Snowflake to improve pipeline performance by 30%, enabling faster dashboarding
- Developed and maintained Spotfire dashboards, improving accuracy and delivering insights to business stakeholders

### Data Analyst Engineer | Formlabs | Boston, MA

Sep 2024 - Dec 2024

- Developed anomaly detection analytics framework, reducing 5 minutes lead time and cutting **costs by 15%**
- Extracted data using **BigQuery SQL**, defining metrics, identifying patterns using Python to flag anomalies
- Built a real-time dashboard in Looker Studio to track failures, enabling **20% yield increase** through timely intervention
- Conducted A/B test analysis and presented to **C-suite**, enabling elimination of 5-min test and saving **\$25K annually**

### Data Engineer | Cognizant | India

Oct 2021 – Nov 2022

- Managed **data migration of 1M+ insurance claims** from Ironshore to Liberty Mutual using Informatica ETL
- Built SQL-based ETL pipelines and automated validation routines using SQL Server, Excel, and DBVisualizer
- Optimized ETL workflows to reduce batch processing time by 40%, improving operational efficiency

## PROJECTS

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### End-to-End Sales Analytics Workflow | Cognizant Project – Airbyte, Google Cloud, HiveSQL, Pyspark, Tableau

- Transformed 100K+ raw sales transactions data using **Airbyte, GCP, HiveSQL, PySpark**, improving reporting accuracy
- Built **Tableau dashboards** for leadership, improving KPIs like revenue, churn, and regional performance
- Uncovered key product trends and customer segments, contributing **\$50K revenue growth** through actionable insights
- Partnered with marketing and finance to design metrics and dashboards, enabling faster, data-driven decisions

### B2B SaaS Customer Retention Analytics Pipeline | Snowflake, SQL, dbt, Airflow, Python, Tableau

- Built a Snowflake SQL-centric analytics warehouse and metrics layer to track churn, engagement, and retention cohorts
- Reduced churn by **15%** in high-risk segments by surfacing actionable insights through dashboards
- Implemented Airflow-orchestrated ELT pipelines with dbt tests and alerts to ensure data reliability

## EDUCATION

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### Northeastern University | Boston, MA

Jan 2023 – Dec 2025

Master of Science, Data Science, GPA 3.97

### Vellore Institute of Technology | India

Jul 2017 – Jun 2021

Bachelor of Technology, Mechanical Engineering

## SKILLS & CERTIFICATION

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|------------------------------------|---|
| • Languages                        | : SQL, Python, R                                      |
| • Databases & Data Platforms       | : Snowflake, Google Cloud (GCP), MySQL, PostgreSQL    |
| • Data Engineering                 | : Airbyte, Airflow, dbt, Informatica, Git, Databricks |
| • Big Data Technology              | : Spark, Hadoop, HiveSQL                              |
| • Analytics & BI Tools             | : Tableau, Power BI, Looker Studio, Spotfire, Excel   |
| • AWS Certified Cloud Practitioner | : <a href="#">[AWS Verification]</a>                  |