

# VINMATHI IYAPPAN

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## SUMMARY

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Strategic data analyst with 7+ years of experience designing automated data pipelines, forecasting models, and BI dashboards that improve decision-making efficiency. Recognized for developing dashboards that saved \$150K annually, improving AI prediction accuracy by 10%, reducing processing costs by \$100K+, and publishing research on LLM-based analytics in IEEE.

## PROFESSIONAL EXPERIENCE

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### California Governor's Office of Emergency Services

07/2025 – Present

#### Research Data Analyst

- Designed Snowflake data models and SQL transformations to power executive Power BI dashboards for Public Assistance grant tracking, reducing manual reporting by 90%, accelerating approvals, and saving \$50K+ annually.

### California Department of Public Health

09/2024 – 12/2024

#### Data Analyst

- Automated data extraction from unstructured document sources using an AI-powered Power Apps solution, achieving 95% accuracy and saving ~30K annually. Scaled the solution across multiple teams.
- Built the team's first SQL database (30 tables) and automated SSIS ETL pipelines to replace manual Excel workflows, standardizing definitions and validation rules and improving data accuracy by 70%.

### Essilor Luxottica – Oakley

05/2024 – 08/2024

#### Data Scientist

- Built Power BI dashboards monitoring 20+ warehouse KPIs, providing real-time visibility for operations and leadership teams that reduced order processing time by 25% and drove \$150K in annual cost savings.
- Engineered key features and performed exploratory data analysis on 1TB+ of transactional data to support regression model development, contributing to a 10% accuracy improvement and 6% reduction in stockouts for demand planning.

### Thryve Digital Health LLP

03/2021 – 08/2022

#### Senior Data Analyst – Healthcare analytics

- Led cross-functional triage to identify and resolve claim pricing errors caused by a faulty code release. Restored accurate billing across programs and reduced revenue leakage by 8% within one release cycle.
- Conducted root cause analysis on claim eligibility failures across 30 programs, uncovering an initialization flaw that caused intermittent incorrect denials. Implemented a fix that eliminated manual rework, saving \$80K annually.

### Cognizant Technology Solutions

09/2015 – 02/2021

#### Associate Analyst

- Implemented PII masking for Toyota Motor North America as part of a CCPA compliance program, partnering with stakeholders to validate sensitive fields and ensure compliant handling across downstream systems.
- Optimized a complex SQL query within high CPU-consuming batch job, reducing execution time from 58 minutes to 0.5 minutes and CPU usage by 98%, cutting mainframe processing costs by \$100K.
- Migrated legacy IMS Change Data Capture pipelines to Informatica Power Exchange across ~200 tables, creating downstream SQL tables and access grants; reduced pipeline failures by 60%, improving downstream analytics.

## PUBLICATION

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Leveraging LLM's and Utility Metrics for Analyzing Prescription Drug Expenditure Patterns - IEEE AIxB 2025

## SKILLS

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**Technical:** Python, SQL, Power BI, Tableau, Excel, Snowflake, A/B Testing, Statistical Modeling, Machine Learning

**Project Management:** Agile, Git, ServiceNow, Smart sheet, Power Point

**Certification:** [AWS Certified Cloud Practitioner](#), [Google Analytics](#), DAMA CDMP (In Progress, target: March 2026)

## EDUCATION

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### Master of Science in Business Analytics

California State University, East Bay - GPA: 3.95/4