

# VINMATHI IYAPPAN

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## EDUCATION

### California State University, East Bay

August 2023 - May 2025

*Master's, Business Analytics*

GPA: 4.00

- **Relevant Courses:** Data mining, Big Data, Data analytics, Statistics, Python Programming, Database Management, Data Warehousing, Regression Analysis, Hypothesis Testing, Data Visualization, Time Series Analytics.

### Kongu Engineering College, Erode

August 2011 - May 2015

*Bachelor's, Electronics and Instrumentation Engineering*

GPA: 9.04

- **Relevant Courses:** Data structures and Algorithms, Programming in C, Neural Networks and Fuzzy Logic, Digital Image Processing, Linear Algebra

## PROFESSIONAL EXPERIENCE

### Thryve Digital Health LLP

Chennai, Tamil Nadu, India

*Senior Mainframe developer [Healthcare, Claim Adjudication, Electronic Health Record]*

March 2021 - August 2022

- Led a cross-functional team of 4 through major project releases, achieving 100% on-time project deliveries and demonstrating effective leadership, project management skills and communication skills.
- Proactively identified and resolved a critical initialization issue in 30 programs, preventing claim rejections under special conditions. This resulted in a significant reduction of 30 tickets, contributing to resource savings and increased customer satisfaction.
- Strategically enhanced the pricing module by conducting in-depth data analysis and engaging in collaborative discussions with stakeholders, which addressed critical data handling issues from a new project and resolved over 50 high-priority tickets.
- Successfully navigated health insurance claims adjudication processes, ensuring meticulous review and timely resolution to facilitate accurate reimbursement and optimal client satisfaction.

### Cognizant Technology Solutions

Coimbatore, Tamil Nadu, India

*Associate*

November 2015 - February 2021

- Implemented performance tuning measures, including in-depth analysis of run time statistics and creation of efficient indexes for DB2 tables, resulting in over a 90% reduction in mainframe job run time and significant cost savings for the client.
- Designed and implemented ETL pipelines using Informatica Power Exchange to extract, transform, and load large datasets from various sources into centralized data repositories, improving data quality and accessibility for reporting.
- Designed and implemented DB2 database objects and performed run stats, loads, unloads, image copies & refresh, during IMS to DB2 migration, ensuring data integrity and availability by planning and executing each phase with attention to details.
- Designed, coded, and implemented solutions in COBOL/JCL for new requirements and enhancements. Conducted root cause analysis for production issues and created business requirements, design, and test plan documents.
- Developed custom reports for stakeholders using SQL queries, aggregating, and manipulating data to provide actionable insights and drive informed decision-making.

## PROJECTS & OUTSIDE EXPERIENCE

### Women in Leadership Associate 2023 - 2024

November 2023 - Present

- Link to my WIL profile: <https://www.csueastbay.edu/women-in-leadership/programs/index.html>
- Gaining leadership skills, receiving dedicated mentorship, and actively participating in a variety of networking events are privileges associated with this opportunity.

### Scholar at Center for Student Research 2023-2024 – Analysis on Drug Expenditure

August 2023 - Present

- Working closely with Prof Dr. Surendra Sarnikar, on implementing a utility-based pattern extraction algorithm to identify a variety of high-utility drug expenditure patterns to design more targeted policy interventions.
- This will also delve into the socio-demographic factors influencing drug and household healthcare expenditures using multivariate analysis algorithm on generating data-driven recommendations to reduce drug costs.

### Airbnb - Data Mining Exploration [Python, Pandas, Scikit-Learn]

November 2023 – December 2023

- Utilized advanced data visualization techniques to illustrate pricing trends, room type preferences with Plotly libraries.
- Predicted the price of the Airbnb when new host comes in using random forest and linear regression model.
- Characterized the host based on the features and reviews using the K-Means clustering machine learning model.
- Predicted the room type which will suit for a new host based on the city using the Classification tree model.

## SKILLS

Language: Python, SQL, R, COBOL, JCL, VSAM

Database: DB2, IMS DB, Teradata

Project Management and Build Tools: Agile, Jira, Git, Confluence, scrum, Rational Clear Case, Service Now

Tools: Informatica Power Exchange, FTP, MQ Explorer, Endeavor, Trace Master, Tableau, Microsoft Excel (VLOOKUP, Pivot table)

Microsoft PowerPoint, Power BI

Strong analytical and problem-solving skills

## Achievements

- Secured a prestigious scholarship from Center for Student Research at California State University.
- Selected as a Women in Leadership associate as from a pool of 100+ applicants and featured in the CSUEB website.