Thanay Geeshpathy Narayanamurthy

Dartmouth, MA • (774) 365-7907 • gnm.thanay@gmail.com • LinkedIn • GitHub

EDUCATION

University Of Massachusetts, Dartmouth, MA, USA
Master of Science in Data Science **August 2022 - May 2024**

Visvesvaraya Technological University, Bengaluru, KA, India
B.E in Electronics and Communication **August 2014 - January 2019**

SKILLS

Languages: Python, C++, SQL, R, U N I X Shell Scripting, NoSQL
Cloud and Databases: MySQL, PostgreSQL, MongoDB, Cassandra, Airflow, Kafka, Neo4j, Snowflake, AWS – [DynamoDB, Redshift, S3, Athena, Glue, EMR, CloudWatch, RDS, EC2]
Visualization and Data Analysis: Tableau, MS Excel, Statistical Analysis, Data Mining, Hypothesis Testing, Metabase
ETL: ER Data Modeling, Data Warehousing, Dimensional Modeling, Data Integration, Data Migration, Pentaho KETTLE
Applied ML and AI: Predictive Modelling, Pytorch, Decision Tree, Random Forest, Linear Regression, Logistic Regression, KNN classification, k-means clustering, LDA, SVM, Naïve Bayes, GBM, PCA, CNN, LSTM, RNN, Transformers, LLM finetuning and API integration
DevOps Tools: Git, Kubernetes, Dockers, Containers, Jenkins – CI/CD
Others: JIRA, Confluence, Team Management, Finance, Loan Management Systems, Healthcare, Pharmaceutical

WORK EXPERIENCE

Data Engineer – Data and Analytics **January 2022 - July 2022**
INDEGENE, Bangalore, India

- Analyzed **EHR** and **pharmacy claims data** for 100+ patients to understand drug effectiveness.
- Used **Python**, **SQL**, and **Tableau visualizations** to optimize sales data delivery by 33% on **Dataiku** and **Snowflake**.
- Developed **Tableau** dashboards to aid sales in targeting HCP writers, boosting sales by 6%.
- Enhanced content origination **ETL pipelines**, increasing content volume by 18%.
- Automated data sourcing to **AWS S3** and **Athena**, reducing process time by 10% with **Airflow**.
- Built sales **prediction models** for a $60M acquisition in eye care products.

Associate Product Manager – Solutions Engineering **July 2021 – December 2021**
FINFLUX, Bangalore, India

- Led a team of 10 using **Agile** project management approach.
- Managed end-to-end **product development** for 3 major projects.
- Used **customer analytics** to cut change requests by 15%.
- Improved customer satisfaction by 25% by defining and tracking key metrics using **Metabase**.
- Streamlined internal communication and documentation, reduced employee training times by 50% using **Confluence**.
- Used **JIRA** to communicate and align key components of upcoming features, bug fixes and products to internal teams.
- Slashed monthly support requests by 30% on **Freshdesk**.

Data Engineer – Customer Success **February 2019 – June 2021**
FINFLUX, Bangalore, India

- Engineered **Loan Management System** workflows, cutting costs by 14% for clients.
- Automated deployments with **Jenkins**, reducing maintenance by 5%.
- Optimized **MySQL** scripts, boosting backend performance by 25%.
- Automated **API** calls and data transformations with **Pentaho**, scaling loan services by 10x.
- Managed **AWS** infrastructure, **EC2**, **RDS** and **CloudWatch**, reducing downtimes by 15% and incident response times by 12%.
- Modeled **data warehouse** for 5% loan provisioning using **PostgreSQL** and **AWS Redshift**.
- Decreased delinquency rates by 7% for a client using **SVM** and **GBM** ML models.

PROJECTS

Gravitational Wave Parameter Estimation using Neural Networks

- Parameter estimation using **neural posterior estimation**.
- Trained a **neural network** to represent the **Bayesian posterior** distribution to make fast inferences of gravitational waves.

Spotify Playlist Enhancer

- Created a webpage and **recommendation system** that takes a Spotify playlist link from user and generates up to 30 songs.
- Designed the front-end using **HTML** and **CSS** and deployed using **Flask**.

Face Recognition using Eigenfaces

- Built a facial recognition program in **python** and **MATLAB** using **principal component analysis** (PCA) dimensionality reduction.
- Conducted a study on parallelization to speed up the recognition using **CuPy - cuda** for **numpy**, **namba** and **Ray vectorize**.

Player Position Predictor

- Implemented ML models **KNN-clustering** and **linear discriminant analysis** (LDA) for classification to predict player positions.
- Trained the model on the data and tested the model to make **predictions with an accuracy** of 85%.