

# Parvathi Rajasekhar

## Data Scientist

✉ parvathi.r.vishnu@gmail.com ☎ 9746834133

📍 35/1476 B, Kochaneth Lane, South Janatha Road, Palarivattom.P.O, Cochin, Kerala, India PIN: 682 025

📅 04-11-1988 🇮🇳 INDIAN 💍 Married 🌐 [linkedin.com/in/parvathi-rajasekhar-8307382a9](https://www.linkedin.com/in/parvathi-rajasekhar-8307382a9)

🐙 [github.com/ParvathiVishnu](https://github.com/ParvathiVishnu)

## PROFILE

Machine Learning Engineer with a computer science foundation and 10+ years of multifaceted experience across ERP implementation, procurement analytics, inventory control, and early education. Skilled in Python, SQL, XGBoost, AWS, and natural language processing, with hands-on project work in sentiment analysis. Brings a unique blend of technical expertise and real-world operational insight to develop AI-driven solutions that are both innovative and practical.

## PROFESSIONAL EXPERIENCE

### ML Engineer

*Gofreelab technologies*

06/2024 – present  
Ernakulam, India

- Assisted in developing and deploying **4+ machine learning models** (e.g., churn prediction, product recommendation) with up to **88% accuracy**, improving client reporting and decision-making tools.
- Participated in building scalable data pipelines using **Pandas, NumPy**, and **SQL**, processing daily transactional data from multiple sources.
- Conducted exploratory data analysis (EDA) on **1M+ records**, identifying key trends that improved model performance by **20%**.
- Implemented feature selection and transformation techniques that reduced model complexity and boosted **model training speed by 35%**.
- Used **scikit-learn** and **XGBoost** for model development and **Matplotlib/Seaborn** for insights visualization and reporting.

### Nursery Teacher

*Kidzee Kadvanthra*

06/2023 – 03/2024  
Ernakulam, India

- Managed digital student data via Kidzee portal, ensuring accuracy and timely updates—developed an appreciation for data integrity and user-centric design.
- Created structured learning plans and measured learning outcomes, introducing basic analytical thinking even at an early education level.

### Store Purchase Manager

*Spark Meditech Pvt Ltd*

01/2012 – 02/2020  
Ernakulam, India

- Led ERP (Adempiere) implementation and functional testing across departments, contributing to process optimization—an experience foundational to understanding enterprise systems and data pipelines.
- Oversaw vendor evaluation and procurement analytics, using historical data trends to guide sourcing and purchasing decisions.
- Monitored inventory dynamics and raw material quality control, aligning closely with principles of data reliability and predictive planning.

## PROJECTS

### ML-Sagemaker-Sales-Prediction 🔗

*I have used machine learning with the XGBoost algorithm to predict total revenue region-wise*

This project demonstrates an **end-to-end machine learning deployment pipeline** using AWS services including:

- **Amazon SageMaker** for training and hosting an XGBoost model
- **Amazon Lambda** to invoke the SageMaker endpoint and trigger SNS
- **Amazon API Gateway (HTTP API)** to expose the model as an API
- **Amazon SNS** for email notification

- **Postman** to test the deployed endpoint

### Sentiment Analysis on Samsung Mobile Reviews

- Collected and preprocessed user-generated Samsung product reviews for sentiment classification.
- Implemented NLP techniques including tokenization, stopwords removal, TF-IDF vectorization, and lemmatization.
- Trained and evaluated machine learning models—such as logistic regression and XGBoost—to classify reviews as positive, negative, or neutral.
- Analyzed performance metrics (accuracy, precision, recall, F1-score) to optimize model outputs and ensure meaningful insights.
- Visualized sentiment distributions and keyword frequencies to support product improvement strategies and market understanding.

## EDUCATION

---

### Data Science with Advanced AI

*Expertslab technologies*

06/2024 – 03/2025

Ernakulam, India

### B. Tech Computer Science and Engineering

*Federal Institute of Science and Technology, (Mahatma Gandhi University, Kottayam, Kerala)*

09/2007 – 06/2011

Ernakulam, India

**79.17 % / CGPA 7.92 on scale of 10**

### 12th STANDARD

*St Joseph's School, (Central Board of Secondary Education, New Delhi, India)*

03/2007

Abu Dhabi, UAE

**87.8 % / CGPA 9.24 on scale of 10**

### 10th STANDARD

*Sherwood Academy, Al Taawan Private School, (Central Board of Secondary Education, New Delhi, India)*

03/2005

Abu Dhabi, UAE

**88.2 % / CGPA 9.28 on scale of 10**

## SKILLS

---

### Programming & Web Technologies

Python (NumPy, Pandas, Scikit-learn), HTML, CSS, SQL

### Machine Learning

Supervised learning, feature engineering, model evaluation, cloud-based ML deployment using AWS

### ERP and Functional Testing

Practical experience with Adempiere ERP; cross-functional collaboration on system implementation

### Data Analysis & Visualization:

Strong ability to extract insights from structured data; foundational experience in reporting and decision support

### Inventory & Procurement Analytics:

Historical data-based sourcing decisions; demand forecasting; quality control metrics

### Communication & Collaboration:

Able to clearly convey technical insights to stakeholders; effective at managing teams and timelines

### Time Management & Adaptability

Balanced diverse roles in fast-paced environments, from education to supply chain

### Digital Platform Navigation:

Familiarity with online portals, data entry systems, and process optimization tools

### Cloud & DevOps Tools

AWS (S3, EC2, SageMaker basics), version control with Git

## CERTIFICATES

---

- UDEMY Course – Modern HTML & CSS
- HackerRank Skill Certification – Python (Basic) 