

# R Elumugam

## Python Software Developer

✉ elumugam.dev@gmail.com ☎ 8667795510 ⌂ Coimbatore, TN 641103 ↳ elumugam.github.io/My-Portfolio/

⌚ github.com/Elumugam 💬 linkedin.com/in/elumugam-r-201b06292

### PROFILE

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Final-year B.Tech undergraduate in Artificial Intelligence and Data Science with hands-on experience in Python, Machine Learning, Data Analysis, and Full Stack Development. Proven ability to build and deploy AI-powered web applications, Analyze real-world datasets, develop predictive models, and integrate REST APIs. Entry-level Python Software Developer with hands-on experience building backend services, REST APIs, and full-stack web applications. Skilled in Python, SQL, Flask/FastAPI, and database-driven application development with a focus on scalable and maintainable software solutions.

### EXPERIENCE

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#### Full Stack Developer Intern, Unified Mentor Pvt. Ltd.

- Developed Python-based backend services and REST APIs supporting multiple application workflows.
- Implemented CRUD operations and database interactions using SQL and MongoDB.
- Optimized database queries and API responses, improving performance by 25%.
- Collaborated in an agile environment following SDLC and version control best practices.

07/2025 – 08/2025

Remote, Haryana, India

#### Data Science Intern, BioXplora

- Analyzed and processed 10,000+ real-world records using Python, Pandas, and NumPy.
- Performed data cleaning, feature engineering, and exploratory data analysis (EDA) to uncover patterns and trends.

08/2024 – 09/2024

Coimbatore, India

### EDUCATION

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#### B.Tech in Artificial Intelligence and Data Science (CGPA: 8.2),

RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

09/2022 – 03/2026

Coimbatore, India

#### 12th Grade (CGPA 7.6), INFANT JESUS METRIC HR SEC SCHOOL

2021 – 2022

Devakottai, India

### TECHNICAL SKILLS

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#### Frontend

HTML, CSS, React.js

#### Frameworks & Backend

Flask, FastAPI, REST APIs,

#### Languages

Python, C++ and JavaScript

#### AI / Data Science

Machine Learning, Data Analysis, EDA, Feature Engineering, Database Model Evaluation, NumPy, Pandas, scikit-learn

#### Database

SQL, MongoDB

#### Tools

Git, GitHub, Visual Studio Code, Orange Data Mining, n8n, Make (formerly Integromat), ChatGPT, Gemini, GitHub Copilot, and related AI/automation tools

#### Core Computer Science

Data Structures & Algorithms, Object-Oriented Programming, Software Design Principles

### PROJECTS

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#### Classmate+, AI-Powered Full-Stack Study & Productivity Platform

01/2026 – 01/2026

- Developed and deployed a production-ready AI-powered full-stack web application using Next.js, Node.js, Express.js, and MongoDB, featuring Google OAuth 2.0 authentication, AI-based PDF analysis, and a chat-driven study assistant; deployed on Render with secure API key and environment configuration.

#### Gen z Art, Magic AI-Powered Art Generation Platform, Link: <https://github.com/Elumugam/genz-art-magic>

12/2025 – 12/2025

- Built and deployed GENZ ART, an AI-based web app
- Handled image analysis and prompt generation workflows for AI-based recreation

#### Sales Prediction using Machine Learning, Data Science & Predictive Analytics Project

08/2024 – 09/2024

- Designed and trained supervised ML models for sales forecasting using Python and scikit-learn.
- Conducted EDA, feature selection, and regression analysis to improve prediction accuracy.
- Evaluated model performance using standard metrics and iterated to refine results.