

Mathiyarasu Arumugam

Graduate Software Engineer

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Profile

Graduate Electronics Communication Engineer with hands-on experience in Java-based application development, React frontend, and MySQL databases. Strong foundation in OOPs, SDLC, and debugging, with internship experience in building scalable web applications.

Education

Anna University B.E. Electronics & Communication Engineering
CGPA: 7.2 | Government College of Engineering, Erode.

Aug 2022 – May 2025

DOTE | Diploma in Electronics & Communication Engineering
Percentage: 87% | The Kavery Polytechnic College, Salem.

June 2018 – May 2021

Internship and Training

TVS Training and Services Limited – Chennai (Machine Learning Trainee)

June 2024 – July 2024

- Applied supervised learning techniques including **regression and classification**.
- Performed data preprocessing and model evaluation using Python, NumPy, Pandas, and scikit-learn. Worked on real-world datasets to extract meaningful insights.
- Gained practical exposure to analytical thinking and problem-solving using real-world datasets. Evaluated models using accuracy and performance metrics with **scikit-learn**.

Besant Technologies – Bangalore (Full Stack Developer Trainee – Intern)

Feb 2025 – July 2025

- Developed Built responsive web applications using HTML, CSS, JavaScript, and React.
- Implemented backend logic using **Java** and integrated **MySQL** databases.
- Designed and executed **CRUD operations** for real-time data handling.
- Collaborated in an **Agile development environment**.

Projects

Student Management System

- Developed a **scalable web-based Student Management System** to efficiently manage and maintain **300+ student records**, including personal and academic details.
- Implemented full **CRUD (Create, Read, Update, Delete) operations** to enable seamless data handling, validation, and real-time updates.
- Enhanced **data accuracy, system reliability, and administrative efficiency** by automating record management and reducing manual errors.

Online Shopping Website

- Developed a **responsive e-commerce web application** with product listings and shopping cart functionality using React.
- Created **reusable and modular UI components**, ensuring clean code structure and smooth user navigation.
- Ensured **cross-browser and cross-device compatibility** with a focus on modern UI/UX and performance optimization.

Student Performance Prediction (Machine Learning)

- Built a **machine learning model** to predict student academic performance, achieving **around 80% accuracy**.
- Performed **data preprocessing and feature engineering** to improve model reliability and prediction quality.
- Analyzed academic performance trends using **Python and data science libraries** to derive meaningful insights.

Technologies

Languages: Java, JavaScript (ES6+), Python(Machine Learning Basics)

Frontend: HTML, CSS, JavaScript, React, Bootstrap, Tailwind CSS

Database: MySQL, MongoDB

Tools: VS Code, Eclipse, GitHub.

Automation Tool: n8n (Basic)

Design Tools: Figma, Canva

Core Competencies

Concepts: Object-Oriented Programming (OOPs), SDLC, Debugging, Basic Data Structures, Unit Testing (Basics), Problem Solving, Analytical Thinking, Team Collaboration, Communication Skills, Adaptability, Business & Data Analysis, Continuous Learning, Leadership Potential.