

# Mathiyarasu Arumugam

Graduate Software Engineer

Salem, Tamil Nadu | mathiyarasuarumugamk@gmail.com | +91 9363250852 | | LinkedIn | GitHub

## 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

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| <b>Anna University B.E.</b> Electronics & Communication Engineering<br>CGPA: 7.2   Government College of Engineering, Erode. | Aug 2022 – May 2025  |
| <b>DOTe</b>   Diploma in Electronics & Communication Engineering<br>Percentage: 87%   The Kavery Polytechnic College, Salem. | June 2018 – May 2021 |

## Internship and Training

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| <b>TVS Training and Services Limited</b> – Chennai (Machine Learning Trainee)<br>• Applied supervised learning techniques including <b>regression and classification</b> .<br>• Performed data preprocessing and model evaluation using Python, NumPy, Pandas, and scikit-learn. Worked on real-world datasets to extract meaningful insights.<br>• Gained practical exposure to analytical thinking and problem-solving using real-world datasets. Evaluated models using accuracy and performance metrics with <b>scikit-learn</b> . | June 2024 – July 2024 |
| <b>Besant Technologies</b> – Bangalore ( <b>Full Stack Developer Trainee</b> – Intern)<br>• Developed Built responsive web applications using HTML, CSS, JavaScript, and React.<br>• Implemented backend logic using <b>Java</b> and integrated <b>MySQL</b> databases.<br>• Designed and executed <b>CRUD operations</b> for real-time data handling.<br>• Collaborated in an <b>Agile development environment</b> .  | Feb 2025 – July 2025  |

## Projects

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| <b>Student Management System</b><br>• Developed a <b>scalable web-based Student Management System</b> to efficiently manage and maintain <b>300+ student records</b> , including personal and academic details.<br>• Implemented <b>full CRUD (Create, Read, Update, Delete) operations</b> to enable seamless data handling, validation, and real-time updates.<br>• Enhanced <b>data accuracy, system reliability, and administrative efficiency</b> by automating record management and reducing manual errors. |  |
| <b>Online Shopping Website</b><br>• Developed a <b>responsive e-commerce web application</b> with product listings and shopping cart functionality using React.<br>• Created <b>reusable and modular UI components</b> , ensuring clean code structure and smooth user navigation.<br>• Ensured <b>cross-browser and cross-device compatibility</b> with a focus on modern UI/UX and performance optimization.   |  |
| <b>Student Performance Prediction</b> (Machine Learning)<br>• Built a <b>machine learning model</b> to predict student academic performance, achieving <b>around 80% accuracy</b> .<br>• Performed <b>data preprocessing and feature engineering</b> to improve model reliability and prediction quality.<br>• Analyzed academic performance trends using <b>Python and data science libraries</b> 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.