

# Aleena Mariya Rajan

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GitHub: github.com/Aleenarajan | Portfolio: aleenamariya-portfolio.netlify.app

**Software Engineer — AI/ML Developer — Full Stack Developer**

## Professional Summary

Master of Computer Applications graduate with expertise in React.js, Node.js, Python, AI/ML, Deep Learning, TensorFlow, and web development. Proven experience in software engineering, data science, and building AI-powered applications. Strong problem-solving skills with experience in computer vision projects and full-stack development.

## Technical Skills

**Programming Languages:** Python, JavaScript, SQL, HTML, CSS

**Frameworks & Libraries:** React.js, Node.js, Flask, TensorFlow, Keras

**AI/ML:** Machine Learning, Deep Learning, CNN, GAN, Computer Vision

**Databases:** MySQL, MongoDB

**Tools:** Git, GitHub, REST APIs, Responsive Design

## Professional Experience

### Software Engineer Intern

June 2025 – Present

*YESIGN, Thrissur*

- Developed software applications using modern web technologies
- Collaborated on feature implementation and code reviews
- Participated in agile development lifecycle

### Data Science Intern

Feb 2025 – Mar 2025

*Cognifys Technology*

- Implemented machine learning models for data analysis
- Processed datasets using Python and data science libraries
- Developed data visualization dashboards and reports

## Projects

### Face Mask Detection System

Aug 2024 – Oct 2024

*Python, TensorFlow, Flask, CNN*

- Developed real-time detection system using Convolutional Neural Networks
- Achieved 95% accuracy in identifying masked/unmasked faces
- Implemented web interface using Flask framework

### AI Image Colorization System

Jan 2025 – Mar 2025

*Python, TensorFlow, GAN, CNN*

- Built AI model for automatic image colorization using GAN architecture
- Converted black-white images to colored versions with 90% accuracy
- Deployed as web application using Flask

<b>Oriens Ecommerce Platform</b>	Jul 2025 – Aug 2025
<i>React.js, JavaScript, Node.js</i>	
<ul style="list-style-type: none"> <li>Developed full-stack ecommerce platform with React.js frontend</li> <li>Implemented product catalog, search, filtering, and shopping cart</li> <li>Integrated user authentication and WhatsApp API</li> </ul>	
<b>Personal Portfolio Website</b>	Mar 2025
<i>React.js, JavaScript, Tailwind CSS</i>	
<ul style="list-style-type: none"> <li>Built responsive single-page application using React.js</li> <li>Implemented React Router and modern UI with Tailwind CSS</li> <li>Integrated contact form with email functionality</li> </ul>	
<b>Publications</b>	
<b>AI-Powered Pneumonia Detection from Chest X-Rays – Web-Based CNN Application</b>	
<i>International Journal of Advanced Computer Science and Applications</i>	
Authors: Aleena Mariya Rajan, Binoj B Chandran, Nissam S, Manasi S	
<ul style="list-style-type: none"> <li>Developed medical diagnostic app using CNNs for pneumonia detection</li> <li>Achieved 94% diagnostic accuracy from chest X-ray images</li> <li>Integrated deep learning model with Flask for real-time analysis</li> </ul>	
<b>Education</b>	
<b>Master of Computer Applications (MCA)</b>	Aug 2023 – May 2025
Mar Baselios Institute of Technology and Science, Kothannangalam	
CGPA: 6.95/10.0	
<b>Bachelor of Science in Computer Science</b>	Jul 2020 – May 2023
Sahyajyothi Arts and Science College, Kumily	
CGPA: 6.3/10.0	
<b>Higher Secondary Education (12th)</b>	Jun 2018 – May 2020
Giss Amaravathy, Kumily	
Percentage: 62.83%	
<b>Secondary Education (10th)</b>	2018
Mary Matha Public School (CBSE), Kumily	
Percentage: 51%	
<b>Certifications</b>	
<ul style="list-style-type: none"> <li>Privacy And Security in Social Media — NPTEL</li> </ul>	
<b>Technical Proficiencies</b>	
<ul style="list-style-type: none"> <li><b>Software Development:</b> Agile, SDLC, Code Review, Testing</li> <li><b>Web Development:</b> Frontend, Backend, REST APIs</li> <li><b>Data Science:</b> Data Analysis, Machine Learning, Data Visualization</li> </ul>	
<b>Languages</b>	
<ul style="list-style-type: none"> <li>English (Professional Proficiency)</li> <li>Malayalam (Native Proficiency)</li> <li>Tamil (Professional Proficiency)</li> </ul>	