

# Annalakshmi D

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## PROFESSIONAL SUMMARY

Computer Science Engineering graduate with a strong foundation in full-stack development and AI-based applications. Proficient in React.js, Node.js, Python, and MySQL. Quick to learn, adapt, and collaborate effectively in team environments. Actively seeking an entry-level Developer role to apply technical skills and contribute to impactful projects.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C, PHP, JavaScript  
**Web Technologies:** HTML5, CSS3, React.js, Node.js, Express.js  
**Databases:** MySQL, MongoDB  
**AI/ML Tools:** YOLO (Object Detection), MediaPipe, OpenCV, Pandas, NumPy  
**Developer Tools:** Git, GitHub, Postman, VS Code, Figma, Canva  
**Version Control & Deployment:** Git, GitHub, Netlify, Render  
**Soft Skills:** Problem Solving, Team Collaboration, Adaptability, Time Management

## EXPERIENCE

### ND Automatronics – Front-End Developer Intern Remote

Jan 2025 – Apr 2025

- Revamped the company's official website using React.js, enhancing load speed by 30% and improving UI/UX.
- Implemented 3D product previews with Three.js and WebGL to simulate product interactions.
- Collaborated with cross-functional teams for UI/UX integration, version control via Git, and deployment through Render.
- Led weekly sprint demos and provided frontend input during Agile ceremonies.

## PROJECTS

### AI-Enabled Child Safety App | *Python, OpenCV, Twilio* GitHub

- Developed an AI-powered safety application for children with features including fall detection, unknown person identification, and voice anomaly detection.
- Utilized OpenCV for computer vision, Librosa for sound classification, and integrated Twilio API for real-time emergency SMS alerts with location.
- Designed intuitive UI for caregivers to monitor alerts and view event history from Firebase backend.

### Delivery Web App | *MERN Stack* GitHub

- Developed a full-stack food delivery web application with role-based authentication, product listing, and dynamic order tracking.
- Implemented admin dashboard, integrated payment gateway (dummy), and used REST APIs for frontend-backend communication.

### YOLO Object Detection Model | *Python, YOLOv5, OpenCV* GitHub

- Trained and fine-tuned a custom YOLOv5 model to identify branded masala packets in live video stream using webcam.
- Preprocessed image data, annotated samples, and optimized detection accuracy for inventory tracking use-case.

## EDUCATION

### Chettinad College of Engineering and Technology Karur, Tamil Nadu

*Bachelor of Engineering in Computer Science and Engineering CGPA: 7.94*

*July 2021 – May 2025*

### Govt. Girls Higher Secondary School Karur, Tamil Nadu

*Higher Secondary Certificate (HSC) Percentage: 85%*

*June 2019 – May 2021*

## CERTIFICATIONS

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<b>Programming in Java – NPTEL (IIT Kharagpur)</b> <ul style="list-style-type: none"><li>Scored 72% – covered OOP, data types, and exception handling in Java.</li></ul>	April 2024
<b>Zoho Creator – Young Creators Program</b> <ul style="list-style-type: none"><li>Built apps using Deluge scripting and database workflows.</li></ul>	July 2023
<b>Python Programming – GUVI</b> <ul style="list-style-type: none"><li>Completed beginner-to-intermediate level Python training.</li></ul>	September 2023
<b>Web Designing In-Plant Training – NEWTECH</b> <ul style="list-style-type: none"><li>Covered HTML, CSS, JavaScript, and responsive web layout design.</li></ul>	June 2023
<b>Sawit AI Learnathon – GUVI (Fundamentals of GenAI)</b> <ul style="list-style-type: none"><li>Learned text-to-image generation, AI models, machine learning workflows.</li></ul>	September 2024

## HONORS & AWARDS

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<b>Smart India Hackathon 2024 – Winner</b> <ul style="list-style-type: none"><li>National-level recognition for developing a smart AI-based sign language toy for deaf and mute children.</li><li>Used MediaPipe to interpret hand gestures and converted them to voice output through a speaker module.</li><li>Won top spot among 50,000+ participants for innovative assistive technology.</li></ul>	
<b>TNSCST Project Grant – 7,500</b> <ul style="list-style-type: none"><li>Selected under Tamil Nadu State Council for Science and Technology Student Project Scheme 2024–25.</li><li>Awarded 7,500 to build and prototype the AI-powered sign language learning toy.</li><li>Recognized for addressing inclusivity and accessibility in early education.</li></ul>	
<b>Code Arena 2025 – Finalist</b> <ul style="list-style-type: none"><li>Secured finalist position in national-level coding contest conducted by Jai Shriram Engineering College.</li><li>Solved competitive programming tasks on data structures, algorithms, and real-world scenarios.</li></ul>	

## WORKSHOPS & HACKATHONS

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<b>Tech Trek Hackathon – Season 1</b> <ul style="list-style-type: none"><li>Participated in 24-hour coding event focused on building real-world software solutions.</li></ul>	
<b>Build Your Own Ticketing App – GUVI</b> <ul style="list-style-type: none"><li>Completed hands-on learning session using HTML, Bootstrap, JavaScript.</li></ul>	
<b>Industry 4.0 Workshop</b> <ul style="list-style-type: none"><li>Attended sessions on IoT, AI, and Smart Manufacturing technologies.</li></ul>	

## PUBLICATIONS & CONFERENCES

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<b>AI-Enabled Smart Safety Wearable for Child Protection</b> <ul style="list-style-type: none"><li>Presented at ICRTT-2k25 (Nadar Saraswathi College, Theni) on May 2, 2025.</li><li>Published in IJSART, Volume 11, Issue 3, March 2025.</li></ul>	
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## VOLUNTEER EXPERIENCE

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<b>NSS Volunteer – National Service Scheme</b> <ul style="list-style-type: none"><li>Contributed to community welfare activities and cleanup drives during annual NSS camps.</li></ul>	
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## LANGUAGES

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**Tamil:** Native Proficiency  
**English:** Professional Working Proficiency