

# Lavanya

+91 9916067028 | [Lavanyarao0502@gmail.com](mailto:Lavanyarao0502@gmail.com) | Mangalore, Karnataka

## PROFESSIONAL SUMMARY

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Dedicated Computer Science Engineer with expertise in full-stack development, software engineering, and database management. Passionate about coding, automation, and scalable solutions, aiming to collaborate with teams to drive efficiency and innovation in software development.

## SKILLS

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**Languages:** Python, JavaScript, Basics of Java and C

**Frontend:** HTML, CSS, Tailwind CSS, React.js

**Backend & APIs:** Flask, Node.js, Express.js, RESTful APIs

**Databases:** MySQL, MongoDB

**Tools:** Git, GitHub VS Code, Postman

## INTERNSHIPS

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**React Developer (Intern)** | Incture Technologies

- Built and optimized React.js applications with API integration.
- Improved state management and scalability for better performance.

**Front-End Developer (Intern)** | Codelab Systems

- Developed and tested applications with HTML, CSS, and JavaScript.
- Improved UI/UX and performance in collaboration with engineers.

**Salesforce Administrator (Remote)** | Smart Internz

- Customized Salesforce solutions, managed user roles and permissions.
- Earned Super Badges, showcasing expertise in CRM automation.

## PROJECTS

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**Object Detection App** | HTML, CSS, Python (Flask), OpenCV, YOLO | [LINK](#)

- Developed a real-time object detection app using Flask & OpenCV.
- Integrated the YOLO model for accurate and efficient object recognition.
- Optimized image processing and detection algorithms for high performance.

**ZeroWasteX: Smart Waste Disposal System** | MERN Stack, OpenRouteService API | [LINK](#)

- Developed a smart waste management system enabling users to schedule waste pickups and notify collectors in real-time.
- Integrated route optimization using OpenRouteService API for efficient waste collection.
- Built an interactive dashboard for waste collectors to track and manage requests.

**Printed Circuit Board Defect Detection using YOLOv5** | Python, OpenCV, Flask, YOLOv5 | [LINK](#)

- Developed a deep learning-based defect detection system for PCBs using YOLOv5 and OpenCV for image preprocessing (grayscale, thresholding, HOG features).
- Deployed a real-time Flask web app for defect localization, annotated output generation, and defect data export via CSV.

## EDUCATION

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**B.E. in Computer Science and Engineering** | 8.71 CGPA

St Joseph Engineering College Mangalore, Karnataka

2023-Present

**Diploma in Computer Science and Engineering** | 81.7%

Govt. Polytechnic for Women, Karnataka

May-2022

**X - SSLC** | 80.64%

Shree Narayana Guru English Medium School Katipalla, Kaikamba

Apr-2019

## CERTIFICATES

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**Salesforce Administrator Virtual Internship** | SmartInternz

**Programming Foundations with JavaScript, HTML and CSS** | Duke University

**Data Science 101** | IBM SkillsBuild

[LinkedIn](#)

[Github](#)

[Portfolio](#)