

# Krishnan KV

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## Summary

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Aspiring frontend developer with a keen interest in building user-friendly and responsive web applications. Passionate about learning modern web technologies and continuously improving coding practices to deliver clean, efficient, and maintainable solutions.

## Education

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### Bachelor of Engineering

Aug 2021 – May 2025

K. Ramakrishnan College of Technology, Trichy  
Electronics and Communication Engineering  
CGPA: 7.7

### Higher Secondary

Jun 2020 – Mar 2021

Blossom Public School, Thanjavur  
Percentage: 73%

## Skills

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- **Programming Languages:** JavaScript, Python
- **Frontend Technologies:** HTML, CSS, React.js, Tailwind CSS
- **Version Control:** GitHub - [github.com/Krish3282](https://github.com/Krish3282)

## Project Work

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### Surface Crack Detection Using Image Processing

Jan 2025 – May 2025

- Developed a system to detect surface cracks in building structures using deep learning techniques.
- Designed and implemented a 5-layer U-Net and CNN-based architecture for precise crack segmentation.
- Optimized preprocessing pipeline with advanced morphological operations, improving crack detection accuracy by **12%**.
- Decreased model training time by **18%** through efficient data augmentation and preprocessing techniques.
- Conducted evaluation on a custom dataset of 5,000+ images, achieving a **92% precision score**.

### Self-Navigating Fire Extinguisher Robot

Jun 2024 – Dec 2024

- Designed an autonomous robot capable of detecting and extinguishing fires in hazardous environments.
- Integrated GPS and GSM modules for real-time location tracking and SOS messaging.
- Enhanced multi-sensor validation and calibration, reducing false fire detections by **15%**.
- Improved fire detection response time by **20%** through optimized sensor fusion algorithms.
- Achieved **85% success rate** in simulated fire scenarios during testing across diverse environments.

## Certificates

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- HTML, CSS, and JavaScript for Web Developers (Coursera)
- Introduction to Front-End Development (edX)
- Python for Everybody (Udemy)