

# AJAY VISWANAGARAJ

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## SUMMARY

A motivated Computer Science and Engineering student specializing in Artificial Intelligence and Machine Learning, with a strong foundation in software development and a growing interest in front-end technologies. Passionate about problem-solving, continuous learning, and collaborating on innovative projects to develop impactful solutions.

## WORK EXPERIENCE

### Webmaster

April 2024- February 2025

IEEE Computational Intelligence Society

- Develop and execute comprehensive web development and maintenance strategies that align with IEEE CIS Society's objectives.
- Support the society through effective collaboration and accountability, driving the team to achieve project goals.
- Ensure consistency and quality across all digital platforms, upholding IEEE CIS Society's brand standards.

### Machine learning Intern

May 2024 - June 2024

Bharat Intern

- Developed and implemented a machine learning model to enhance predictive capabilities.
- Conducted data analysis to extract insights and inform project strategies.

### Web developer intern

March 2024 - April 2024

Oasis Infobyte

- Developed and designed user-friendly websites using HTML, CSS, and JavaScript.
- Created interactive features to enhance user engagement and functionality.

## EDUCATION

B.Tech in CSE -AI ML Specialization, 3rd year

2022-2026

Dayananda Sagar university  
CGPA: 8.68/10 (First 5 semesters)

## ADDITIONAL INFORMATION

- Programming Languages: Python (Pandas, Keras, TensorFlow, YOLO, NumPy), Java, C
- Machine Learning: Deep Learning, Neural Networks, Computer Vision, RNN (Recurrent Neural Networks)
- Web Development: Front-End (HTML, CSS, JavaScript)
- Tools & Libraries: OpenCV, MediaPipe, PyAutoGUI

## PROJECTS

### AI-Safari-Sentinel

Developed a YOLOv8-powered AI system that efficiently detects and classifies animals in video streams, identifying each with bounding boxes, species names, and conservation status. Designed to revolutionize wildlife monitoring, this tool enhances real-time insights into species behavior and protection needs.

### Volume Sync

An intuitive hand-gesture volume control system powered by OpenCV, MediaPipe, and PyAutoGUI. This tool simplifies audio adjustment, enhancing user experience through gesture-based interaction.

### Cosmolux

A web-based Orrery application that visualizes Near-Earth Objects in an interactive planetary system, enhancing space awareness and education.

### CineVault

A blockchain-powered digital media vault designed for secure and decentralized movie storage and streaming, ensuring content authenticity and ownership protection.

### Movie Genie

An AI-driven recommendation system that personalizes movie suggestions based on user preferences, viewing history, and sentiment analysis.

### Bengaluru Prophet

A machine learning-powered predictive analytics tool for forecasting Bengaluru's traffic patterns and congestion levels, aiding commuters and city planners.

### Railway Fault Detection System

An AI-based monitoring system that detects faults in railway tracks using image processing and deep learning techniques, enhancing railway safety and maintenance efficiency.