HARISH KUMAR V

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Summary

A Prefinal year **Artificial Intelligence and Machine Learning** student with strong foundations in AI, ML, Frontend Development, IoT and Core Programming (Java, Python, C). Actively building projects that solve **real-world** and **socio-impactful problems**, blending technical expertise with End-to-End Development. A daily learner with resilient leadership skills which create and inspire a positive change in society.

Education

Rajalakshmi Engineering College, Chennai
B.Tech Artificial Intelligence & Machine Learning

September 2023 - Present
CGPA: 8.52

Christ The King Matric Boys Higher Secondary School, Kumbakonam
Higher Secondary (XII)

July 2022 - April 2023
92.83 %

Christ The King Matric Boys Higher Secondary School, Kumbakonam
Secondary (X)

June 2020 - April 2021
89%

Projects

EduEase-Interactive OD Approval Application *React.js, MongoDB, Node.js, HTML, CSS, and JavaScript*
- Built a digital platform to revolutionize **OD leave management** in institutions by **automating request** & **approval workflows** includes student request submission with proof upload, faculty dashboards for approval/rejection, real-time notifications & report generation. Achieved **70%** faster processing, **60%** improved faculty efficiency & **90%** accuracy in student submissions, ensuring transparency.

Smart Home Monitoring *Arduino, ESP8266, Blynk Cloud, ThingSpeak*
- Developed a Smart Home Monitoring system with real-time sensor data visualization on a dashboard using cloud platforms (Blynk, ThingSpeak, Arduino Cloud) & communication protocols (UART, SPI, I2C). Enabled remote monitoring, safety alerts, and wireless control, achieving **65% improvement** in monitoring efficiency, **50% reduction** in manual checks, and **75% better safety awareness.**

EduMate-AI Powered Adaptive Learning Platform *Python, TensorFlow, PyTorch, OpenCV, React, PostgreSQL, MongoDB*
- Developed an adaptive learning platform for personalized education and skill enhancement. Used Python, TensorFlow for AI-driven recommendations **80% accuracy**, OpenCV, WebRTC for real-time feedback **75% engagement improvement**, and React for an interactive interface **60% faster task completion**. Integrated Twilio notifications, AI chatbots for **70% faster responsiveness**.

Pneumonia Detection With ViT Model & MC Dropout *Python, PyTorch, ViT, OpenCV, MC Dropout*
- Developed a deep learning framework using **ViT, Monte Carlo Dropout,** and **Active Learning** for automated pneumonia diagnosis from chest X-rays. Achieved **94.1% accuracy**, **96% sensitivity**, and **0.98 AUC**, outperforming ResNet-50, with **85% predictions >90% confidence**. Active learning **improved performance to 89.26%**, reducing labeling effort & ensuring reliable classification models.

Skills

Programming & Web Development
- C
- Java
- CSS
- HTML
- Python
- React.js
- My SQL
- Javascript

Version Control & Collaboration Tools
- Git
- Github
- VS Code

Automation & Design tools
- Uipath Studio
- Canva

Soft Skills & Project Management
- Team Leadership and Mentoring
- Adaptability
- Time Management
- Attention to detail
- Active Learner

Professional Experience

SECRETARY, IEEE SOCIETY *Rajalakshmi Engineering College*
- Managed documentation, coordinated meetings, and facilitated communication among members.

Aug 2025- Present

EVENT MANAGEMENT LEAD, PHOENIX CLUB *Rajalakshmi Engineering College*
- Led planning and execution of college events, supervising teams and timelines.

Aug 2025- Present

EVENT MANAGEMENT JUNIOR ASSOCIATE, IEEE CIS SOCIETY *Rajalakshmi Engineering College*
- Assisted in organizing technical events, coordinating logistics, and ensuring smooth execution.

Oct 2024 - Aug 2025

INTERNSHIP TRAINEE *National Institute Of Technology, Silchar*
- Implemented AI/ML models for medical imaging projects.

Jan 2025- Mar 2025

INTERNSHIP TRAINEE *InternEzy*
- Gained hands-on experience in Cloud Computing with AWS, focusing on deployment and services.

Nov 2024- Jan 2025

INTERNSHIP TRAINEE *ReTech Solutions Pvt. Limited, Chennai*
- Worked on IoT and real-time sensor data projects.

Dec 2024- Dec 2024

Accomplishments

- **Paper Presentation (2025):** Presented a paper on **"LMS Using Generative AI"** at **Chennai Institute Of Technology** with a team of 3.
- **Nptel Certfication(2025):** Completed **3+** Nptel courses & received one **Gold Badge.**
- **Paper Presentation (2025):** Presented a paper on **"Pneumonia Detection with ViT+MC Dropout"** at **VFSTR University** via online.
- **Newsletter Contributor(2025):** Contributed as **Content creator** & **Editor** for AIML dept. newsletter at Rajalakshmi Engineering College.
- **Hackathon Winner(2024):** **2nd Prize winner**, IEEE Breadths hackathon under the theme **"Environmental monitoring"** with a team of 4.