

# HEMANTH KUMAR C S

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## OBJECTIVE

Final-year AI & ML Engineering student seeking internship opportunities to apply expertise in machine learning, deep learning, and computer vision. Proven track record in developing end-to-end AI solutions with strong problem-solving abilities and hackathon success.

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## EDUCATION

### B.E. Computer Science & Engineering - AI & ML Specialization

ATME College of Engineering | VTU | Expected 2026 | CGPA: 8.28/10 (Current)

**Coursework:** Machine Learning, Deep Learning, Computer Vision, DSA, DBMS, Software Engineering

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## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, R, HTML, CSS

**ML/AI Frameworks:** TensorFlow, Keras, scikit-learn, OpenCV, YOLO, MediaPipe

**Web/Databases:** Flask, Streamlit, MongoDB, MySQL, Supabase, Firebase

**Tools & Platforms:** Git, Jupyter Notebook, Google Maps API, Tableau, PowerBI, Kali Linux, Wireshark, Nmap, Aircrack-ng

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## PROJECTS

### StreeRaksha - Women's Safety Platform | *Computer Vision Engineer*

- AI-powered threat detection system with real-time gender classification and pose analysis
- Integrated YOLO, MediaPipe for person detection, tracking, and distress gesture recognition
- Built multi-threaded processing architecture with priority queues for optimized performance
- Developed automated alert system with Firebase integration and evidence collection
- Tech:** Python, OpenCV, YOLO, MediaPipe, React Native, Firebase, Raspberry Pi

### Melanocytic Nevi Classification using Transfer Learning | *Deep Learning Developer*

- Achieved 89% accuracy in disease classification using ResNet50 on 10,000+ medical images
- Implemented class weighting and data augmentation for improved model generalization
- Tech:** Python, TensorFlow, Keras, ResNet50, scikit-learn

### **Move Mentor - Bus Transportation System** | *Team Lead & Full-Stack Developer*

- Real-time tracking system for students with 99.9% uptime, reducing wait times by 40%
- Developed role-based access system and route optimization features
- **Tech:** Python (Flask), MongoDB, Google Maps API, HTML, CSS, JavaScript

### **Disease Prediction System** | *Machine Learning Engineer*

- Built ML model with 85% accuracy for early disease detection from health parameters
  - Developed web interface processing parameters in real-time
  - **Tech:** Python, scikit-learn, Pandas, Streamlit
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## **EXPERIENCE**

### **Media Head** | *IET onCampus ATMECE* | 2024 - Present

- Led content strategy for 60+ member technical society, increasing engagement by 60%
- Organized 7+ technical events and workshops, with 90% attendance rate
- Organisation committee member for hackathon **TechAvishkar 2.0** (ATMECE | 2025)

### **Cybersecurity Intern** | *Academor (Remote)* | 2023

- Completed comprehensive training in network security and ethical hacking
  - Gained hands-on experience with penetration testing and vulnerability assessment
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## **ACHIEVEMENTS & CERTIFICATIONS**

### **Competition Achievements**

- **Winner** - "Invaders" Hackathon, MIT Mysuru (2023)
  - **Runner-up** - "Code Battle 2K25", KLSVDIT Haliyal (2025)
  - **Finalist** - "RVCExIITB CTF 24", RV College of Engineering Bangalore (2024)
  - **Participant** - Multiple hackathons including Symbiot (VVCE), Hack Kshetra (VVCE), Fusion Techackathon (AIET)
  - **Certifications:** Infosys Springboard (ML with TensorFlow, Web Dev, Cybersecurity), Oracle SQL, Tableau
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## **ADDITIONAL INFORMATION**

**Languages:** English (Fluent), Kannada (Native), Hindi (Conversational)

**Interests:** ML Engineering, Software Developer, AI Research, Cybersecurity

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*Available for internships starting immediately | Open to relocation*