HEMANTH KUMAR C S

Email: hemanthreads@gmail.com | **Phone:** +91 8884862170 | **LinkedIn:** [Hemanth Kumar C S](#) | **GitHub:** [HemanthKumar-CS](#)

OBJECTIVE

Final-year AI & ML Engineering student with hands-on experience in developing end-to-end machine learning, deep learning, and computer vision solutions. Seeking internship or full-time opportunities to apply technical expertise, problem-solving skills, and hackathon-driven innovation in real-world projects. Passionate about building scalable AI systems and contributing to impactful tech teams.

EDUCATION

B.E. Computer Science & Engineering - AI & ML Specialization
ATME College of Engineering | VTU | Expected 2026 | **CGPA: 8.38/10** (Till 6th sem)
Coursework: Machine Learning, Deep Learning, Computer Vision, DSA, DBMS, Software Engineering

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TECHNICAL SKILLS

Programming Languages: Python, Java, C, R

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

Web/Databases: HTML, CSS, Flask, Streamlit, MongoDB, MySQL, Supabase, Firebase

Data Handling & Visualization: Pandas, NumPy, Tableau, Power BI, Excel.

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

CS fundamentals: Operating Systems, DSA, Computer Networks, Software Engineering

Soft Skills: Communication, Teamwork, Leadership, Problem Solving.

EXPERIENCE

Cybersecurity Intern | *Academor* (*Remote*)   *2023*
- Completed comprehensive training in network security and ethical hacking
- Gained hands-on experience with penetration testing and vulnerability assessment

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.O** (ATMECE | 2025)

PROJECTS

StreeRaksha - Women's Safety Platform   [GitHub](#)
- 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 (Conference Paper Published)   ⬤ *GitHub*

- 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   ⬤ GitHub

- 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 Analysis System   ⬤ GitHub

- 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

AgroBalance   ⬤ GitHub

- Designed a smart soil monitoring solution using NPK sensors connected to Raspberry Pi 5 for real-time macronutrient profiling.
- Applied machine learning techniques in Python to recommend optimal crops and fertilizers based on live sensor data.
- Delivered actionable insights through real-time dashboards, promoting precision agriculture and efficient resource usage.

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)
- **Organised Hackathon:** Tech Avishkar 2.0 24 hours state hackathon | ATMECE
- **Certifications:** Infosys-Springboard - Explore Machine Learning with TensorFlow | Introduction to Oracle: SQL | Analytics Using Tableau | Building Machine Learning Systems with TensorFlow | Time Management | Nvidia (Building LLM Applications with Prompt Engineering)

ADDITIONAL INFORMATION

Languages: English (Fluent), Kannada (Native), Hindi (Conversational)
Interests: Staying updated with emerging tech, building real-world solutions, and exploring story-driven games

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Available for internships starting immediately | Open to relocation