

# Harshith Kumar

Mangaluru, Karnataka, India

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## Summary

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Highly motivated and results-driven Computer Science student with a strong foundation in AI, machine learning, and data structures. Passionate about leveraging cutting-edge technologies to solve real-world challenges and drive innovation. Adept at building intelligent solutions, optimizing algorithms, and developing scalable applications. Proven track record of delivering impactful projects, collaborating with cross-functional teams, and continuously expanding technical expertise. Eager to contribute creativity, problem-solving skills, and a deep understanding of emerging technologies in a dynamic software engineering role.

## Technical Skills

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- **Programming Languages:** Python, C, Java(Basics), C++, LaTeX
- **AI and Machine Learning:** NLP, OpenCV, TensorFlow (Basics), Scikit-learn, Deep Learning, Model Deployment (Streamlit, Netlify)
- **Data Structures and Algorithms:** Sorting, Searching, Graph Algorithms, Tree Structures
- **Web Development:** HTML, CSS, JavaScript (Basics)
- **Tools and Technologies:** Git, RapidMiner, SQL, Postman, IEEE VTools
- **Soft Skills:** AI tools Enthusiast for design, content creation, and writing; strong teamwork, problem-solving, communication, leadership, and critical thinking abilities.

## Experience and Achievements

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- **Webmaster, IEEE Sahyadri Student Branch** - Experience in IEEE VTools, IEEE Xplore, and basic research paper writing.
- **Gold and Silver Medals at INEX India 2023, Goa** - For "Agriscape: Automated Arecanut Sprayer and Harvester" product pitch.
- **Conducted AI Workshops** - Educated 50+ students at ATAL Tinkering Lab on AI tools.
- **Volunteer, COSMIC 2024 Conference** - Assisted in organizing an international conference on semiconductors, cybersecurity, and computer science.
- **Competitive Coding and Tech Quiz Organizer** - Led challenges on UNSTOP platform in collaboration with IEEE Day and IEEE Mangaluru Subsection.
- **Ethics Champion, IEEE R10 EAAC** - Advocated ethical technology use in innovation.
- **Blockchain Workshop at PES University** - Hands-on experience in smart contract creation with Move language.
- **Postman API Fundamentals Student Expert** - Secured Expert Badge from Postman Academy and great hands-on experience in various API drills and scripting.
- **Certification in Text Mining and Social Network Analysis** - Hands-on-experience in NLP techniques conducted by Skillsoft in association with Infosys.

## Projects

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### CyberResolve – AI-Powered Legal Assistant (Minor Project)

- Developed an AI-driven platform reducing lawyer-client communication time by 40
- Integrated Gemini AI/Mistral 7B and LangChain for real-time legal case analysis.

- Implemented NLP-based document scanning for efficient case management.

#### **AI-Powered Music Insight Analyzer**

- Created ML models analyzing Last.fm data, predicting song popularity with 85
- Built sentiment analysis tool for lyrics, providing personalized music recommendations.

#### **Simple AI Resume Analyzer and Job Matcher**

- Developed an NLP-based resume analyzer using Cosine Similarity.
- Built backend for generating personalized reports and integrated real-time feedback.

#### **CS-Algorithms-Visualizer**

- Designed an interactive sorting and graph algorithm visualization platform.
- Integrated dynamic graphs for real-time educational engagement.

### **Education**

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#### **Sahyadri College of Engineering and Management, Mangaluru**

Bachelor of Engineering in Computer Science (Expected: June 2026)

Current CGPA: 8.85

#### **Mahesh PU College, Mangaluru**

Pre-University (PCMB), Completed in 2022 — Percentage: 89.3

#### **Sri Mahalingeshwara English Medium School, Surathkal**

Secondary Education (10th), Completed in 2020 — Percentage: 95.84

### **Professional Memberships**

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#### **IEEE Student Member**

Webmaster, IEEE Sahyadri Student Branch — IEEE Mangaluru Sub-Section

Membership ID: 100066736

#### **IET Student Member**

Membership ID: 1101276093

### **Hobbies and Interests**

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- Carnatic Vocal Music, Bharatanatyam, Violin, Mridangam, Painting
- AI-assisted Graphic Design and Creative Exploration

### **Languages**

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- English (Fluent), Kannada (Fluent), Hindi (Fluent), Tulu, Tamil