

# Hemanth Muchu

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Hanumakonda, Telangana, India

## PROFESSIONAL SUMMARY

AI/ML Engineer and Full-Stack Developer specializing in AI-powered web applications, generative AI solutions, and intelligent automation. Expertise in integrating cutting-edge AI technologies with modern web frameworks to create scalable, user-centric digital experiences. Proven ability in prompt engineering, data visualization, and building production-ready AI systems. Passionate about leveraging machine learning and AI-driven innovation to solve complex technical challenges.

## EDUCATION

### Kamala Institute of Technology & Science

karimnagar, Telangana

Bachelor of Technology in Artificial Intelligence and Machine Learning

Aug 2023 – Present

- Focused coursework: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Data Structures & Algorithms
- Relevant projects in Generative AI, AI Agents, and intelligent web applications

## TECHNICAL SKILLS

**AI/ML Technologies:** Generative AI, Large Language Models (LLMs), AI Agents, AI Automation, Prompt Engineering, PyTorch, Natural Language Processing

**Programming Languages:** Python, C, SQL, HTML5, CSS3

**Web Development:** React, Node.js, WordPress, REST APIs, Responsive Design, AI-Powered Chatbots

**Tools & Platforms:** Git, GitHub, Docker, Google Cloud Platform, MySQL, Canva, Adobe Creative Suite

**Core Competencies:** AI Integration, Front-End Development, UI/UX Design, Agile Methodologies, Technical Documentation

## PROJECTS & EXPERIENCE

### AI-Powered Web Application Development

Recent

- Developed intelligent web applications integrating AI-driven automation, chatbots, and personalized user experiences using modern JavaScript frameworks and Python-based AI models
- Built scalable REST APIs connecting front-end applications with AI/ML backends, ensuring seamless data flow and real-time processing
- Optimized website performance and SEO through AI-powered analytics and automated testing frameworks

### WordPress Development & AI Integration

Recent

- Designed and deployed custom WordPress themes and plugins with integrated AI capabilities for e-commerce and business websites
- Implemented AI-powered search functionality and recommendation systems to enhance user navigation and conversion rates
- Developed automated content management workflows using AI for dynamic content generation and optimization

### Prompt Engineering & AI Agent Development

Recent

- Engineered advanced prompts for large language models to optimize AI interactions for customer service automation, content generation, and data extraction tasks
- Built autonomous AI agents capable of complex task execution, decision-making, and workflow automation using LangChain and custom frameworks
- Improved AI response accuracy and relevance through systematic prompt optimization and fine-tuning techniques

## CERTIFICATIONS

**AI Agents** — Simplilearn Generative AI, Autonomous AI Systems

**Complete Web Development Course** — Udemy HTML, CSS, JavaScript, Web Development

**Adobe India Hackathon (Round 1)** — Adobe Problem Solving, Hackathon Participation

## ADDITIONAL STRENGTHS

**Design & Creativity:** Graphic Design, UI/UX Principles, Adobe Photoshop, Canva, Figma prototyping, Visual Communication

**Soft Skills:** Problem-solving, Team Collaboration, Agile Development, Technical Communication, Continuous Learning