MANVITHA S

6363596934 • manvithamili1@gmail.com • linkedin.com/in/manvitha-s-586717287

ABOUT ME -DOB:06/11/2004

A highly motivated Computer Science student with strong proficiency in Python, object-oriented programming (OOP), and data structures (C++). Passionate about AI and Machine Learning, with a keen interest in developing efficient, scalable solutions for real-world problems. Skilled in data preprocessing, model development, and algorithm optimization, with hands-on experience in TensorFlow, scikit-learn, and deep learning frameworks. Dedicated to continuous learning and exploring cutting-edge AI technologies to drive innovation.

EDUCATION

B.E, Computer Science Engineering Graduating 2026
Ramaiah Institute Of Technology,Bengaluru 9.45 CGPA
Specialisation: Artificial Intelligence and Machine Learning

TECHNICAL SKILLS

Programming Languages: Python, C, C++,C#, Java
Data Structures & Algorithms : C++
Artificial Intelligence & Machine Learning: Computer Vision, XAI, Agentic AI, RAG
Front-End Development: HTML, CSS, Bootstrapping, GUI design with Tkinter

PROFESSIONAL EXPERIENCE

Indpro, Bengaluru: AI Tech Intern April 2025-Present

- Architected and built a retrieval-augmented generation (RAG) customer-support chatbot using LangChain and Google Generative AI embeddings, ingesting product manuals and FAQs via PyPDFLoader into a Chroma vector store.

Edunet Foundation, Remote: AI Intern Nov 2024 – Dec 2024

- Designed and implemented a Face Recognition Attendance System leveraging computer vision and machine learning technologies.
- Preprocessed image datasets to improve recognition accuracy and trained models using OpenCV and TensorFlow.
- Integrated the system with a user-friendly interface for real-time attendance tracking and report generation.

ACADEMIC PROJECTS

HER-XAI Mini-Project 2025

Collaborated in a team of three to design Deep Learning model to segment and detect the Endometrial cancer in uterus.

- Improved the Dice Score from 0.73 to 0.85 by using SegFormer model to segment the Endometrial lining in PET images
- Detected the cancer using YOLOv5 detection model with 98% accuracy.
- Used Grad-CAM to enhance the transparency and interpretability of model predictions.

MathGuru May 2025

Executed the project end-to-end individually in just 4 days

- Built an AI-powered Math Agent using Qdrant and LlamaIndex with ReAct Agent for step-by-step math solving
- Integrated vector search for retrieval and enforced guardrails to block non-mathematical queries.

ACTIVITIES

Infosys, Bengaluru: Mentee Oct 2024 – Dec 2024

- Selected for a prestigious 12-week women-in-tech program focused on digital learning and skill development.
- Got certifications in AI and Deep Learning
- Enhanced communication, leadership, and career growth through personality development modules