

MANVITHA S

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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

Ramaiah Institute Of Technology,Bengaluru

Specialisation: Artificial Intelligence and Machine Learning

Graduating 2026

9.45 CGPA

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.
- Building 'Recruitment Management System' using React tech stack for the frontend and .NET(C#) for the backend and MYSQL for the database.

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.

Weather Notification System

Learnt how to use APIs

- I built and deployed a weather notification system to PythonAnywhere that alerts users via SMS if rain is expected. Using the OpenWeatherMap API, the system retrieves weather data for a specified location and checks the forecast for rain in the upcoming hours.
- If rain is predicted, an automated SMS is sent to users via the Twilio API, reminding them to carry an umbrella. This project combines API requests, weather data analysis, and SMS automation. The solution is deployed on PythonAnywhere, with the system running daily at 7 AM to keep users informed.

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