Manurbhav Arya

manurbhav16@gmail.com | LinkedIn - Manurbhav Arya

SUMMARY

Passionate Computer Science Senior at IITT with expertise in Software development and Machine Learning. Strong problem-solving and collaboration skills. Eager to explore new technologies and seek challenging opportunities.

EDUCATION

IIT TIRUPATI

B.Tech in Computer Science and Engineering
Grad. May 2025 | CGPA: 8.35

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
Operating Systems
Artificial Intelligence
Computer Networks
Database Management
Machine Learning
Software Engineering
Compiler Design
Cyber Security

SKILLS

PROGRAMMING

Languages:
• Intermediate:- C++, Javascript, Python, Typescript, Java
Tools/Databases:
• Git • SQL • MongoDB
FrameWorks/Libraries:
• ReactJs • Express
• Tailwind • Scikit • Keras
• langchain • Astro • NextJs
• Pytorch

ACHIEVEMENTS

• Secured Department **Rank 1** in the first year, earning a branch change from Civil Engineering to Computer Science and Engineering.
• Represented the college 2 times in prestigious **Inter-IIT** Competitions for Badminton.

EXPERIENCE

SOFTWARE ENGINEER INTERN

August 2024 – August 2024 | Jindo Technologies LLC
• Developed and implemented tools for extracting metadata and performing accurate measurements from DICOM files, including coordinate conversion and visualization.
• Enhanced efficiency in medical imaging data processing at Jindo Tech by streamlining workflows and improving measurement precision.

MACHINE LEARNING APPRENTICE

July 2024 – July 2024 | TestAIng.com

• Explored and documented risks in Large Language Models (LLMs), evaluated using various LLM metrics, and implemented basic Retrieval-Augmented Generation (RAG) techniques.
• Contributed to the testing with DeepEval and Guardrails.ai, and worked on fine-tuning models using QLoRA.

SOFTWARE ENGINEER INTERN

May 2024 – June 2024 | FOSSEE, IIT Bombay

• Developed a hackathon platform utilizing Astro and TypeScript and Contributed to the design and testing phases of the project
• Automated conversion of JSON to Markdown files using Python scripts and Collaborated with team members to implement features and ensure platform functionality.

UG RESEARCH STUDENT

Jan 2024 – May 2024 | IIT Tirupati
Research Project, Guide: Dr. Kalidas Y
• Aiming to create an end-to-end DL model to digitize prescription images
• Applied advanced algorithms to analyze and manipulate images, achieving significant insights into image processing.

PROJECTS

SANKALP | Node | Express | React | MongoDB
| https://sankalp-one.vercel.app |
• Web app to help people learn how to interact sensitively with people with mental health issues and disorders through educative. and interactive story modes
• Includes a therapy chatbot, and a great UI/UX with user profile customization features like dark/light theme and profile pics.

TALKYWOKY | Node | Express | React | MongoDB | Socket.io
| https://github.com/mannubhai1/TalkyWoky |
• A Real time chat application using MERN and socket.io, designed to work seamlessly across devices.
• Users can create accounts, log in securely and chat with other users in real-time using Socket.IO

DYNAMODOCS | Artificial Intelligence | Ollama | Python
| https://github.com/mannubhai1/DynamoDocs |
• Leveraged LLMs with Ollama for seamless connectivity with Python Git repositories, enabling automatic generation and updating of documentation.
• Reduced manual documentation effort by almost 90%.