

RITHIKHA S

8904141928

rithikha.s2023@vitstudent.ac.in

LinkedIn

Github

Education

Vellore Institute of Technology, Chennai

Pursuing Bachelor of Technology in Artificial Intelligence and Robotics

Tamil Nadu

Aug 2023 – Aug 2027

Delhi Public School Bangalore East

High Secondary – 78.8%

Bangalore

Jun 2011 – May 2023

Relevant Coursework

- | | | |
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| • Artificial Intelligence • Database Management | • Web Development • Robot Programming | • Arduino • Machine Learning |
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Certificates

AWS APAC Solutions Architecture virtual experience program on Forage - September 2025

- Designed and simple and scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response times.
- Described my proposed architecture in plain language ensuring my client understood how it works and how costs will be calculated for it.

Vista Equity Partners AI in Action Job Simulation on Forage - January 2026

- Completed a job simulation involving prompt engineering and GenAI workflow automation for Vista's Portfolio Operations team.
- Applied Vista's four-part prompt framework (Ask, Context, Examples, Desired Output) to synthesize customer NPS survey feedback into executive-ready insights, improving clarity and relevance of outputs by > 50% through iteration.
- Designed and tested repeatable GenAI workflows (news aggregation, data reconciliation, and qualitative insight summarization) using tools such as ChatGPT and Copilot, ensuring accuracy, professional tone, and scalability.
- Evaluated AI-generated outputs for accuracy, tone, and usefulness; implemented guardrails and refinement techniques that reduced error rates and increased stakeholder usability of results.

Projects

Manipulation of Robotic Arm | ROS1, Python, Arduino IDE

Mar 2025 – Apr 2025

- Controlled a DIY robotic arm by integrating ROS1 nodes with Arduino, enabling joint angle manipulation via ROS topics and serial communication.
- Developed Python scripts for publishing/subscribing arm control commands, tested motion planning, and achieved real-time manipulation through ROS workspace integration.

Quiz based To Do List Website for Students | HTML, CSS, JavaScript

Feb 2025 – May 2025

- Designed a web application where students can manage tasks with a gamified quiz-based system to improve engagement and productivity.
- Implemented responsive UI with task management, quiz prompts, and progress tracking using vanilla JavaScript.

Braille to Text Transcription | Arduino IDE

Feb 2025 – May 2025

- Text-to-Braille:** Designed a glove with six vibrator motors that converts user-input text into Braille patterns, allowing visually impaired users to feel the characters in real time.
- Braille-to-Text:** Built a button-based Braille input device that translates Braille characters into text, displaying results on an LCD screen for accessibility.

CURA – AI Powered Personal Journal | HTML, CSS, JavaScript, Flask, OpenAI, Whisper, JSON Models

Aug 2025 – Nov 2025

- Developed a web-based personal wellness application that enables users to record journal entries through text or voice and analyze emotions using sentiment detection models.
- Integrated Jotform chatbot for guided emotional reflection and OpenAI Whisper API for speech-to-text transcription.

Technical Skills

Languages: Java, Python, C, C++

AI/ML: OpenCV, YOLO, Numpy, Pandas

Tools & IDE: Google Colab, Git, Arduino IDE, VS Code

Web Development: HTML, CSS, JavaScript, ReactJS

Embedded Systems: Arduino, (learning Raspberry Pi and Pixhawk)

Database: MySQL

Other: ROS and Linux Basics

Extracurricular

Technocrats Robotics

Jun 2025 – Nov 2025

VIT Chennai

Programming Member

- Member of programming team of Technocrats Robotics for Robocon and Rover competitions.