Trisha Vijayekkumaran

A committed student studying B.Tech in Computer Science Engineering from Amrita Vishwa Vidyapeetham and B.S in Data Science from IIT Madras, with a mix of software development, data science, and artificial intelligence skills. Using knowledge effectively in real-world projects and hackathons, with hands-on experience in critical thinking, problem-solving, and data analysis. Motivated by the desire to create innovative products that utilize technical and analytical acumen to solve intricate problems, keen on implementing interdisciplinary skills in order to create meaningful contributions within dynamic settings.

PROFESSIONAL EXPERIENCE

AI/ML Intern

Gabify

October 2024 - December 2024

- Worked on fine tuning LLMs and deep learning models for detecting speech impediments.
- Trained Computer Vision model on detecting emotions and stress during speech impediment detection.

PROJECTS

Object Detection and Classification in Airport X-Rays

January 2025 - Present

- · Creating new computer vision models for object detection in X-Rays
- Fine-tuning existing and recent YOLO models for object detection in X-Rays.

Ziroh Labs Project

February 2024 - Present

- Creating a Java implementation of VGGNet using Java
- No use of inbuilt packages for the implementation

Agentic Workflow Implementation Using LangGraph

September 2024

- Developed a multi-agent workflow using Langgraph, enabling efficient query decomposition and resolution
- Optimized query processing with iterative refinement, enhancing response accuracy through feedback integration.

Multimodal Retrieval-Augmented Generation (RAG) system September 2024

- Integrated CLIP, BLIP, and T5 models for text and image-based question answering and summarization
- Implemented an automated pipeline for document understanding, enabling PDF text/image extraction, reasoning, and feedback-based response optimization without OCR

SKILLS

- Python, Java, C++, C
- · MySQL, MongoDB
- HTML & CSS & JavaScript
- Scrum & Agile Methodologies
- · Flask, Django
- Tableau
- Computer Vision, NLP
- · AutoCAD, Blender, Unity

- Problem Solving
- · Leadership
- Critical Thinking
- Adaptability
- Public Speaking
- Teamwork
- Conflict resolution
- Empathy

+919620042111

trishajobcontact@gmail.com

Bengaluru

EDUCATION

Bachelor of Technology in Computer Science Engineering

Amrita Vishwa Vidyapeetham Benagluru

2022 - 2026 CGPA - 8.36

Bachelor of Science in Data Science

Indian Institute of Technology Madras

PUBLICATIONS

Multi Language Lexical Analyser

5th GCAT Conference 2024, Bangalore

Efficient Parking Allotment System

ICTCS SPRINGER 2024, Jaipur

Efficient Parking Spot Allocation in a Grid-based Parking Lot

Comp-SIF 2025, Bangalore

Explainable Al-based Detection and Interpretation of Abnormalities in Chest X-rays

ISACC 2025, Silchar

CERTIFICATION COURSES

IBM Machine learning Certification Aug 2024 - Present Microsoft AI Skills Certification Feb 2024

ACHEIVEMENTS

Algomania'23

1st Place

Margazhi OSC'24 5th Place

HACK4CHANGE'24

Top 10 Finalist