

Srihari Thyagarajan

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Education

Mukesh Patel School of Technology, Management and Engineering (NMIMS)
Bachelor of Technology (B.Tech.) in Artificial Intelligence, CGPA: 3.82/4

2021 - 2025

Mumbai, Maharashtra

Work Experience

Digital India Corporation

May 2024 — June 2024

Remote (Delhi), India.

AI Intern

- Implemented AI solutions for [IndiaHandMade](#) products listing:
 - Integrated *image captioning* and generative language models.
 - Developed *audio transcription* for multilingual descriptions.
 - Developed and deployed *FastAPI-based* solution on Ubuntu servers, optimizing vendor experience
- **Skills:** Python, FastAPI, HuggingFace Models (BLIP, Llama3, Groq, Whisper)

Engagely.ai

May 2023 — June 2023

Engineering Intern

Mumbai, MH

- **Hands-on Testing Exposure:** Learned bug detection and documentation.
- **Collaborative Coding Insights:** Issue management, explored Python-Flask.

Gif Your Game

Sep 2020 — April 2024

Customer Service, Technical Support (Freelancer)

Remote (US), India.

- **Issue Resolution:** Researched and promptly resolved customer inquiries.
- **Quality Assurance:** Conducted app quality testing and documented issues.

Projects

MathMate: A Multi-Modal Educational AI *Ongoing* | VLLM, HuggingFace, Open-webui, PyTorch, [Lightning.ai](#), wandb, FastAPI

- **Goal:** Addressing LLMs' math *weaknesses* by integrating CV, ML and DL to create a multi-modal educational platform for math learners (student-focused).
- **Research Focus:** Enhancing LLM performance in mathematical reasoning through multi-modal input integration and specialized fine-tuning techniques.
- **Current Focus:** Fine-tuning LLMs, implementing object recognition and text/audio input processing, with deployment planned for student use in real-time learning environments.

[Object Detection and Classification Web App](#) | YOLOv8, PyTorch, OpenCV, Flask, HTML/CSS

- **Goal:** Addressing the need for accessible real-time object detection by developing a user-friendly web application for both video streams and images.
- **Technical Focus:** Integrating state-of-the-art YOLOv8 model with Flask backend and responsive frontend for seamless object recognition and classification.
- **Key Achievement:** Implemented a robust system capable of real-time object detection, with an intuitive interface for media upload and result visualization, enhancing accessibility for non-technical users.

[Attendance System using Facial Recognition](#) | Python, PyQt5, OpenCV, Haarcascade classifiers, Excel

- **Efficient Attendance Tracking:** Developed a facial recognition system to automate attendance tracking, replacing traditional methods with an efficient and contactless solution.
- **Project Scope:** Oversaw end-to-end project, from face detection to data storage.

Technical Skills

Languages: Python, Java

Databases: MySQL, MongoDB

Libraries/Frameworks: Flask, Qt, NumPy, Pandas, scikit-learn, FastAPI, Matplotlib, OpenCV, keras, PyTorch, TensorFlow

Developer Tools/Platforms: Git, GitHub, GitLab, HuggingFace, Linux, Windows, Android Studio

Coursework: Machine Learning, Deep Learning, NLP, Image Processing, Computer Vision, Recommendation Systems, Data Structures and Algorithms, Database Management Systems, Linear Algebra, Discrete Math, Statistics, Time Series Analysis