Srihari Thyagarajan

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Education

Mukesh Patel School of Technology, Management and Engineering (NMIMS) **2021 - 2025**
Bachelor of Technology (B.Tech.) in Artificial Intelligence, CGPA: 3.82/4 *Mumbai, Maharashtra*

Work Experience

Marimo.io
Sept 2024 — Present
Remote (United States), India

Ambassador | AI/ML and Developer Relations

- Spearheaded community growth through weekly content creation, including tutorials and tips on marimo's AI/ML notebook tools
- Managed GitHub repository showcasing community projects, curating and featuring new spotlights weekly, resulting in increased engagement and diverse applications

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
Mumbai, MH

Engineering Intern

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

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