

# 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.

[Flight Booking Management System](#) | Python, Qt, PyQt5, MySQL, Twilio

- User-Friendly GUI:** Created a user-friendly GUI with PyQt5, offering an intuitive experience.
- Flight Details:** Provided comprehensive flight information to users, including availability, schedules, and fares.

[Image Processing](#) | Python, PyQt5, OpenCV, Pandas, NumPy

- Laplacian Edge Detection:** Implemented the Laplacian filter to detect edges in images, aiding in object recognition and boundary detection.
- LPF (Low-Pass Filtering):** Implemented a low-pass filter to remove high-frequency noise from images, enhancing image quality.

[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