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

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.

Gif Your Game

Sep 2020 — April 2024
Remote (US), India.

Customer Service, Technical Support (Freelancer)

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

Projects

MateMate: 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, PyQt5, Qt, NumPy, Pandas, scikit-learn, FastAPI, Matplotlib, OpenCV, keras, nltk, spacy
Developer Tools/Platforms: Git, GitHub, GitLab, HuggingFace, Linux, Windows, Android Studio
Coursework: Machine Learning, Deep Learning, NLP, Signal and Image Processing, Data Structures and Algorithms, Database and Management Systems, Computer Networks, Linear Algebra and Differential Equations, Statistics.