Srihari Thyagarajan

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EDUCATION

NMIMS University — Mumbai, MH
Bachelor of Technology in Artificial Intelligence (Dean's List), CGPA: 3.8/4 — *2021 – 2025*

EXPERIENCE

marimo.io — Jan 2025 – Present
Ambassador & Intern — AI/ML and Developer Advocacy — *Remote (SF, United States)*
- Worked on adoption of reactive Python notebook platform through self-initiated technical development, community building and partnerships in open-ended startup environment
- Contributed 37+ merged PRs — enhanced snippets system; developed mo.image_compare() widget; identified & resolved Windows-specific bugs
- Created 20+ interactive educational notebooks; launched Deep-ML integration with interactive learning tab via deepml-notebooks; established HuggingFace course integration; added marimo to CNCF landscape
- Community building via spotlight showcases and newsletter drafting; led UCSD workshop on NBA data analysis; delivered a hands-on workshop at NMIMS; represented marimo at community booths at PyCon India and IndiaFOSS; pursued enterprise adoption outreach — expanded platform reach across technical communities
- Spearheaded technical outreach initiatives to ML practitioners and teams — initiated conversations with engineers from various companies for Streamlit/Jupyter migration to marimo; established multi-platform partnership with GroundZeroAI for Linear Algebra course development

Digital India Corporation — May 2024 – June 2024
AI Intern — *Remote (Delhi), India*
- Developed end-to-end AI pipeline for IndiaHandMade platform — integrated BLIP image captioning, Llama3/Groq text generation, Whisper audio transcription
- Built FastAPI-based APIs for seamless platform integration; collaborated with operations team for Ubuntu server deployment, resolving dependencies and ensuring production reliability
- Streamlined vendor onboarding by automating product listing processes — enabled multilingual descriptions through audio transcription, enhancing user experience across diverse markets

PROJECTS

marimo [OSS] | *Python, TypeScript, React, WebAssembly*
- Developed mo.image_compare() widget for interactive before/after visualizations; enhanced snippets system with 18 practical code examples improving developer onboarding experience
- Implemented AI integrations — Groq chat support, DeepSeek configuration guide; resolved *Windows-specific* marimo islands bugs; developed QoL package installation UX improvements

marimo Learn [OSS] | *Python, Interactive Notebooks, WASM, Educational Content*
- Spearheaded development of 50+ interactive educational notebooks across Python fundamentals, probability theory and linear algebra — launched comprehensive probability series based on *Stanford CS109* with 20+ interactive notebooks (sets to ML concepts)
- Established multi-platform collaboration with GroundZeroAI for Linear Algebra course; achieved 180+ GitHub stars; launched landing page for quick WASM notebook previews

Deep-ML [OSS] | *Python, HTML, Interactive Notebooks, ML Algorithms*
- 12+ merged implementations — activation functions (SELU, Swish, Softplus, PReLU, ELU), regression algorithms (Ridge, Single-Neuron), classification metrics (F-score, Confusion Matrix), K-Means
- Architected marimo integration with interactive learning tab enabling HTML-WASM notebook deployments; provided support for CI/CD automation processes

MathMate: Multimodal AI Assistant for Math Learning | *openweb-ui, HuggingFace, Lightning.ai, Weights & Biases*
- Capstone project developing specialized LLM for mathematical reasoning — implemented model merging techniques using mergekit, combining NuminaMath-7B-TIR and DeepSeek-Prover-V1.5-RL models to create Mathmate-7B-DELLA (6.91B parameters)
- Applied ORPO fine-tuning on specialized math datasets; conducted evaluation using LLM AutoEval with Nous dataset; utilized cutting-edge MLOps tools for model development and analysis

TECHNICAL SKILLS

Languages: Python, HTML/CSS, SQL, LaTeX
Frameworks & Libraries: FastAPI, Flask, Transformers, PyTorch, OpenCV, NumPy, Polars, Pandas, Plotly, Altair
Dev-tools & Interests: Git, GitHub, VS Code, marimo, WASM, Discord, OSS development, Dev advocacy/relations, Educational Content Creation, Community Building, Partnership Development