Syuan-Hao, Li (Tom)

Education

2021-2025 (expected) **Bachelor, Computer Science and Infomation Engineering**; National Taitung University (NTTU)

GPA: 79/100

Core Coursework: Machine Learning, Data Structure, Algorithm, Big Data

Publications

Journal Publications

Developing a Consumer Electronics Robotics With a Large Language Model Based on a Trustworthy AI Framework (Accepted by IEEE) **Link**

- Published in IEEE Transactions on Consumer Electronics (Q1)
- Authors: Hsin-Te Wu, Wei Wei, Syuan-Hao Li, Mu-Yen Chen

Development of a Generative AI-Based System for Early Childhood Educational Material Creation and Effectiveness Analysis (Sumbitted)

- Published in Computers in Human Behavior (Q1)
- Authors: Hsin-Te Wu, Syuan-Hao Li, Mu-Yen Chen

KidMotion: Temporal Video Representation for Automated Children's Movement Analysis and Scoring (Sumbitted)

- Published in IEEE Internet of Things Journal (Q1)
- Authors: Hsin-Te Wu, Syuan-Hao Li, Mu-Yen Chen

Conference Publications

- **IET ICETA 2024**: "Multi-Task Learning Using VoVNet-OSA Block Enhanced U-Net on Med++ MNIST Dataset" (First Author)
- **ACM MLPR 2024**: "Data Cartography Techniques Application to Tree-Based Models" (First Author)
- TWSC2 2024: "Expert System for LLM-Driven Vulnerability Scan Results" (First Author)
- TANET 2024: "Natural Language-Driven Hydroponics Management: Interactive Problem-Solving and Control System" (Second Author)
- ICISSD 2024: "Healthcare Insurance File Exchange System Based on Blockchain" (Best Paper Award) (Second Author)

Experience

Cathay Financial Holdings - Intern - Financial Healthcare Division (Digital & Technology Development Center, DDT) (2025/02 - 2025/07)

- Enterprise Data Engine Development, focusing on various data processing and analysis tasks(ongoing)

Digital TA System Development (2024/02 - 2024/12)

Github

- Engineered an LLM-based teaching assistant system using Huggingface and FastAPI, achieving 90% query accuracy
- Implemented a student Q&A tracking system where similar questions are addressed through guided learning, improving student learning efficiency

Algorithm & Data Structure Teaching Assistant (2022/09 - 2023/06)

- Containerized Domjudge system using Docker, reducing deployment time from 2 hours to 15 minutes
- Automated system maintenance tasks, decreasing downtime by 80%
- Supported students in understanding course materials and taught fundamentals of competitive programming, covering data structures and algorithms

Technical Experience

GradCompass A Grad Analysis and Visualization Tool.

- Primarily designed to analyze and visualize graduate admission outcomes for a specific department, offering insights into which skills correlate with successful applications to various graduate schools.
- Currently in discussions with departmental faculty regarding potential real-world deployment.

writing king A IELTS Writing Preparation Tool.

- Developed a web-based platform for IELTS writing preparation using FastAPI and MongoDB.
- Implemented a feedback system utilizing NLP techniques.

nexus A Stock Analysis Platform.

- Developed real-time stock analysis system using FastAPI and MongoDB, processing 100+ monthly transactions.
- Implemented predictive algorithms achieving 75% accuracy in trend forecasting.

hayabusa An AutoML Platform.

- Created automated ML pipeline using Pycaret, reducing model selection time by 80%.
- Deployed as educational tool in university courses, serving 50+ students.

wisper UI Speech Processing Tool

- Built multi-language transcription system using openAI-Wisper, supporting 10+ languages.
- Optimized audio processing pipeline, achieving 95% transcription accuracy.

Skills

Languages: Python, C++, TypeScript, JavaScript, Rust, Go

Backend: FastAPI, Docker, K8s, MongoDB, Redis, PostgreSQL

Frontend: React, Vue, Tailwind CSS, Svelte

ML/AI: PyTorch, TensorFlow, Hugging Face, scikit-learn, OpenCV

Certifications

- Azure AI-900
- NVIDIA DLI Certificate
- Red Hat System Administration I (RH124)
- Red Hat System Administration II (RH134)
- WISE-PaaS Core Level I
- WISE-PaaS Core Level II

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