VINCENT (TSUNG-MIN) PAI

(+886)938-781-636 | b09602017@ntu.edu.tw | [LinkedIn](#) | [GitHub](#)

EDUCATION

National Taiwan University (NTU), Taiwan

Major in Electrical Engineering, (Last 60 GPA: 4.09, CS related GPA: 3.91) Sep 2021 - Present

Major in Bioenvironmental System Engineering, (Dean's List Award, 1/51 of the department) Sep 2020 - Jun 2021

PROFESSIONAL EXPERIENCE

AI Engineer, Genibuilder Sep 2024 - Present
- Survey and construction of AI agents, RAG systems, LLM personas, Fine-tuning LLMs, and In-context learning.

Speech Process and Machine Learning Lab, NTU Aug 2023 - Present

Undergraduate Research Program, advised by Prof. Hung-Yi Lee
- Integrated approaches in LLM, including efficient fine-tuning, self-supervised, and unsupervised learning.

AI Engineer Intern, Compal Jul 2024 - Aug 2024
- Research and implementation about knowledge graph, RAG system, LLM agent, LLM fine-tuning.

Teaching Assistant of Introduction of Generative AI, NTU Jan 2024 - Jun 2024

Research Intern, Institute of Information Science, Academia Sinica Jul 2023 - Mar 2024
- Training the Trans Family and SecureBERT model to generate the embedding of the knowledge graph.
- Detecting the Attack pattern in the log file by some deep learning technique including MLP, RNN and GNN.

Network administrator of Men Dormitory 6 of NTU Sep 2022 - Aug 2024
- Resolved network issues in the dormitory by applying extensive knowledge of networking.

Wireless Mobile Network Lab, NTU Feb 2022 - Nov 2023

Undergraduate Research Program, advised by Prof. Hung-Yu Wei
- Utilizing RNN, CatBoost, and XGBoost for the prediction and classification of mobile device handovers.

PUBLICATIONS

LLM Discussion: Enhancing the Creativity of Large Language Models via Discussion Framework and Role-Play, *Li-Chun Lu, Shou-Jen Chen, Tsung-Min Pai, Chan-Hung Yu, Hung-yi Lee, Shao-Hua Sun* Jul 2024
- 2nd author, published at COLM 2024, Openreview average score 6.5
- Discussion framework, auto scoring mechanism, benchmark and dataset selection, and ablation study design.

PROJECTS

Exchange Student Matching Platform May 2024
- We utilize the Django framework to construct the back-end and connect it with the front-end. This allows users to register and match with other exchange students, building connections via a designed matching algorithm.

Raspberry Pi as a cold wallet of cryptocurrency Dec 2022
- We use Raspberry Pi3 and develop some functions for sealing data to the TPM. This R-pi could be used as a cold wallet, a trendy IoT product, or even the hardware to seal some DIDs and VCs for other IoT products.

EXTRACURRICULAR ACTIVITIES

- NTU EE Basketball Team, Vice Captain and Coach, Taiwan Sep 2021 - Aug 2022
- NTU School Basketball Team, Taiwan Sep 2020 - Jun 2021

LANGUAGES AND SKILLS

Technical Skills Python, PyTorch, C++, Go, MATLAB, Selenium, Django, HTML, CSS, LangChain

Languages Mandarin, English (TOEIC 880/990, Listening 465; Reading 415, Golden Certificate)