




Zhu Yufan

✉ e0773591@u.nus.edu




in yufan-zhu-36024a225

🌐 <https://yufannnn.github.io/>


Education

- Aug 2025 – May 2029  **National University of Singapore**
Ph.D. in Computer Science, Research Focus: Privacy-Preserving Machine Learning.
- Aug 2021 – May 2025  **National University of Singapore**
B.Comp in Computer Science with 2nd Major in Statistics, Focus Areas: Artificial Intelligence & Database. GPA: 4.5/ 5.0
- Feb 2019 – Dec 2020  **Eunoia Junior College**
A Level result: AAAA/A



Scholarships

- 2025-2029  NUS Research Scholarship Recipient
- 2021-2025  NUS Science and Technology Merit Scholarship Recipient
- 2016-2020  MOE School-based Scholarship (SM1 Scholarship) Recipient




Research Publications

- 2024  **A Personalized Learning Tool for Physics Undergraduate Students Built On a Large Language Model for Symbolic Regression**
Yufan Zhu, Zi-Yu Khoo, Jonathan Sze Choong Low, Stephane Bressan.
In Proceedings of the 2024 IEEE Conference on Artificial Intelligence.



Employment History

- May 2024 - August 2024  **Machine Learning Engineer Intern, A*STAR**
Conducted model training, validation, and performance optimization for machine learning pipelines deployed on Google Cloud Platform.
- Jan 2024 - May 2024  **Generative Artificial Intelligence Engineer Intern, KiWi Augmented Retail Technology**
Led a team of three to develop a pipeline for automatic poster generation with SD and LLM.




Research Experiences

- May 2023 - Present  **Undergraduate Researcher**, National University of Singapore & A*STAR
UROP: Investigating Symbolic Regression with LLMs with few-shot learning
FYP (Ongoing): Developing an FHE Model for Evaluating LLMs on MAMBA Architecture.
- July 2024 - Jan 2025  **Research Assistant**, Nanyang Technological University & Centre for Quantum Technologies
Participated in Quantum Enhanced ML research using variational quantum algorithms
- May 2024 - Aug 2024  **Research Assistant**, National University of Singapore
Odyssey: Participated in a paper on a theory-driven AIGC framework for visual marketing.

Relevant Experiences

- Aug 2022 - Present  **Teaching Assistant**, National University of Singapore
Conducted weekly tutorials or labs for CS1101S (Programming Methodology), CS2100 (Computer Organization), CS2106 (Introduction to Operating Systems), and CS4248 (Natural Language Processing). Won the **Honor List of Student Tutors for Excellence in Teaching**.
- Nov 2022 - Present  **Residential Assistant**, Raffles Institution Boarding School
Organize events and provide academic and living support to boarders. Assist in upgrading the boarding school management system.

Project Experiences

- 2024  **SplaXBERT Model for Question Answering**
Led a team of four in fine-tuning an enhanced BERT-based model, with mixed precision training and context splitting to optimize performance on SQuAD V1.1 tasks.
- 2023  **Bayesian Stroke Prediction**
Led a team of three to develop a Bayesian model for stroke prediction, Won the **Best Project Award**.
-  **Morning Duty Tool and Night Duty Tool**, Raffles Institution Boarding School
Led a team of three to develop web tools to streamline task management for tutors at RI Boarding School.

Project Experiences (continued)

- TutorPro: Interactive Tool for Private Tutors**

Led a team of four to create a desktop software solution for private tutors, simplifying administrative tasks and enhancing workflow efficiency.
- 2022

AI Agent for "Breakthrough"

Designed an AI agent for the "Breakthrough" board game, employing iterative deepening minimax search for strategic gameplay.

Professional Certificates

- Feb 205

AWS Certified Machine Learning Engineer - Associate

Available Period

- 1st May 2025 to 31st July 2025 (full-time)