



Bao Minh Tran

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An undergraduate student, pursuing Bachelor of Artificial Intelligence, at Deakin University. I am a Maths and AI enthusiast, motivated by curiosity and a passion for learning. My current interests are Optimization and Graph Neural Networks. Also, I am optimistic about **neuroscience-inspired AI models**, e.g. Brain-like Neural Networks, which, to me, is indispensable to human-like AI development.

Education

Bachelor of Artificial Intelligence, Deakin University 2024 – Present
WAM: 94 / 100 Expected graduation: 2027

Relevant coursework: SIT192 - Discrete Mathematics, SIT194 - Introduction to Mathematical Modelling, SIT292 - Linear Algebra for Data Analysis, SIT191 - Introduction to Statistics and Data Analysis,

High School Diploma, Hung Vuong High School for The Gifted 2021 - 2024
Specialisation: Informatics - GPA: 8.8/10

Focused on Computer Science, specifically Data Structures and Algorithms, and awarded in Competitive Programming contests at provincial level.

Experience

Casual Research Assistant, Deakin University April 2026 – Present

- Ran and managed ML experiments on HPC clusters using the Slurm workload manager
- Prepared research reports and documentation in \LaTeX
- Supported literature reviews and experimental workflows in AI research projects

Projects

Out-of-Distribution data fitting November 2025 - February 2026
ADR Summer Project 2025, Deakin University [GitHub repo](#)

- Implemented different splitting techniques mimicking real-world shifted data
- Benchmarked SoTA ML/DL models under distributionally shifted data
- Summarised results and reviewed related literature in an academic manner

Linear Programming for Data Science June 2024
PiMA Reasearch Summer Camp 2024 [GitHub repo](#)

- Transformed regression problems into optimisation frameworks and matrix formulations.
- Developed Linear Regression models using both L1 (Linear Programming via SciPy linprog) and L2 (closed-form least squares) approaches.
- Implemented and evaluated models in Python, comparing error minimisation strategies (L1 vs L2) in terms of robustness, accuracy, and sensitivity to outliers.

Skills

Programming: Python, C#, SQL

Libraries and Tools: Scikit-learn, PyTorch, Pandas, Git, Slurm, HPC

Languages: Vietnamese (Native), English (IELTS 7.5), Japanese (JLPT N5)

Awards

- Silver Medal winner in Informatics at the HSGS Olympiad, 2022
- Third Prize in Informatics at the Provincial High School Excellence Competition, 2022 & 2023
- Encouragement Prize in the Specilized category at Central Vietnam - Central Highlands Informatics Olympiad, 2022 & 2023

Additional Information

Research Interests: Artificial Intelligence, Optimization, Graph Neural Networks, Brain-like Neural Networks, Graph Theory