Minh Vi Nguyen
AI Engineering

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PROFILE

Hardworking, open-minded AI enthusiast with a strong foundation in machine learning and a passion for continuous self-improvement. Skilled in core ML algorithms, Retrieval-Augmented Generation (RAG), model fine-tuning, and deploying AI solutions using Docker and CI/CD pipelines. I enjoy solving complex problems and bring hands-on experience across the AI workflow—from data preparation to deployment. I am now seeking a working student opportunity in AI Engineering to contribute to meaningful projects and grow within a collaborative, fast-paced environment.

EXPERIENCE

Jun 2024 – Present

Casual researcher

I'm currently collaborating with a PhD mentor at Tien Giang University on a research project focused on improving data classification methods. We're evaluating a newer approach, the ACUTE algorithm, to see if it can replace the current method for mapping data more efficiently. As part of this work, I also contributed to enhancing the SVM algorithm by using the Twin Vector technique, which improved its speed and accuracy when handling complex datasets.

EDUCATION

Jun 2023 – Present

Bachelor of Computer Science, La Trobe University
Major in Artifitual Intelligence
Subjects: Machine Learning, Computer Vision, Deep Learning Efficient Algorithms and Data structure, Advanced Mathematics, Computer Architecture, Object- Oriented Programming.
GPA: 3.6 based on completed courses

PROJECTS

Vision Pricer

I developed a computer vision system that detects and identifies objects in images, then predicts their prices by combining object detection, Retrieval-Augmented Generation (RAG), fine-tuned models, and random forest regression. This approach bridges visual recognition with value estimation, with potential applications in retail and inventory systems.

Rag Title Search

I developed a keyword-driven video title retrieval system using Retrieval-Augmented Generation (RAG) with the GPT-4o-mini model. This involved embedding a YouTube dataset into a vector store to enable efficient semantic search and accurate content matching. The project delivered strong results and was recognized by industry professionals for its innovative and effective application of large language models.

AWARDS

La Trobe University – Provost's commendation 2024

Eligibility criteria for the Provost's Commendation includes completion of a minimum of 90 credit points with a Weighted Average Mark (WAM)

SKILLS

Programming	Python, C/C++, Java, SQL, Docker, CI/CD Pipelines
Machine Learning	Supervised & unsupervised learning (clustering, regression, classification), Reinforcement Learning, Convolutional Neural Networks (CNNs)
Large Language Models (LLMs)	Fine-tuning, prompt engineering, LLM deployment (Frontier, Open Source models)
Algorithms and Data Structures	Bellman-Ford, Dijkstra, Floyd-Warshall, Prim's algorithm, BFS, DFS, Trie, Binary search, Sorting algorithms

LINKS

Github	https://github.com/minhving
Linkedin	https://www.linkedin.com/in/minhvinguyen