TRUONG QUOC TRUNG
AI ENGINEER

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OBJECTIVES

Students preparing to graduate with a major in Applied Mathematics and Computer Science student with strong skills in machine learning, data analysis, and AI model development using Python. Eager to apply academic knowledge to real-world AI challenges and contribute to innovative solutions. Self-motivated, quick learner, and passionate about advancing in AI engineering.

EDUCATION

VNUHCM, UNIVERSITY OF SCIENCE   **2021 - PRESENT**

Bachelor of Science in Mathematics & Computer Science

Specialization: Applied Mathematics and Computer Science | **GPA:** 8.2/10

Relevant Coursework: Data Visualization, Data Mining, Machine Learning, Statistics, Database Systems.

WORK EXPERIENCE

AISIA Lab - Lifelog Q&A Dataset (Freelance)   **Aug - Oct 2024**

Paper link: LifelogQA: A Question Answering Dataset for Lifelogging Data

- Took ownership of data annotation and cleaning to build a high-quality Q&A dataset from lifelogging data.
- Evaluated and refined LLM-generated outputs to ensure clarity, accuracy, and relevance.
- Co-authored a research paper related to the dataset and received a 9.6/10 internship evaluation.

PROJECTS

Demo Chatbot For Youth Union - AISIA Lab   **January 2025**
Github link: github.com/TrungTruong32/Chatbot_demo

- Built a Vietnamese QA chatbot using **Gradio and LangChain**, integrating pretrained NLP models for fluent, context-aware interactions.
- Implemented and **Fine-tuning Retrieval-Augmented Generation (RAG)** by preprocessing documents and structuring data for vector-based search, leveraging **Qdrant** as a vector database for semantic search.

IR: Applications of Latent Semantic Analysis and Modern Approaches
Github link: github.com/TrungTruong32/Film-Searching   **July 2025**

- Engineered a movie search system using **LSA**, **Flask** and other approaches for nearly **10,000 documents**, enabling retrieval from vague plot queries with over **80% Recall@10**.
- Benchmarked 7 text representation methods on a 10.000 movie dataset; GloVe achieved highest **Recall@10 (81.6%)** and **MRR (78.4%),** while FastText offered fastest query time **(0.143s)** with strong semantic accuracy **(nDCG@10: 76.4%).**

SKILLS

- **Programming Language:** Python (NumPy, Pandas, Scikit-learn, matplotlib), R, JavaScript, C/C++, C#.
- **Frameworks & Libraries:** PyTorch, TensorFlow, Hugging Face Transformers, Scikit-learn, LangChain
- **Databases:** MySQL, PostgreSQL, SQL Server and MongoDB (NoSQL), Qdrant (Vector Database).
- **Tools:** Microsoft Office (Word, Excel, PowerPoint), Git/Github, Jupyter Notebook.
- **Languages:** Vietnamese (Native), English (B2 VSTEP).
- **Soft Skills:** Analytical Thinking, Teamwork, Communication, Adaptability, Problem-solving.