# 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:** 8.13/10

**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                **June 2024**

- Engineered a movie search system using LSA and other approaches, enabling retrieval from vague plot queries with over 80% Recall@10.
- Benchmarked 7 text representation method: Bag-of-Words(BoW), TF-IDF, PPMI, Word2Vec, GloVe, FastText, and HellingerPCA. GloVe and FastText outperformed traditional methods in both relevance and speed.

## 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.