Thái Thành Nguyên

AI Engineer | (+84) 0888.150.900 | ttnnguyen159@gmail.com | Ho Chi Minh City, Vietnam | LinkedIn

An AI enthusiast with 3 years in the game, and more than a year diving deep into the NLP domain with large language models (LLMs) and Agents. My work is driven by exploring the potential of open-source models with agentic applications and knowledge graphs in solving complex and advanced reasoning tasks.

WORKING EXPERIENCE

Bosch Global Software Technologies, Internship   01/2024 - 07/2024

AI Engineer | Skills: LLMs, APIs, Git, RAG, Agents, Vector Database, Knowledge Graph, ANN Algorithms.

Key Responsibilities:
- Develop fully, locally-hosted **multimodal RAG** capable of handling **multi-hop questions, image content.**
- Implement **context-aware chunking** and pre-processing of PDFs to extract tables, images contents.
- Investigate open-source models that integrate with **tool calling, structured output**, and JSON format.
- Design and implement **multi-agent systems** where multiple agents collaborate to complete tasks.
- Using some prompt technique such as **tree-of-thoughts, ReAct, Reflexion** to leverage LLMs to generate test cases based on requirements.

Achievement:
- Contributed to the development of innovative GenAI solutions for the department.
- Runner-up in an internal hackathon related to a car diagnostic chatbot.
- Contribute to LangChain by integrating a llamaCpp, supporting instructed chat, chain, and tool calling.

QAI FPT Software, Internship   08/2023 - 12/2023

AI Engineer | Skills: NLP, Pytorch, CNN, BERT, Sentence-Transformers, Graph Convolutional Network.

Key Responsibilities:
- Develop a **graph convolutional network model** that extracts key information from invoice images (OCR).
- **Fine-tuning BERT** by leveraging more features such as word-level and character-level features.
- Trained with **hard negative sampling** in classification using contrastive learning and triplet loss.

EDUCATION

FPT University   2021 - 2024

Bachelor Degree, Artificial Intelligence & Data Science
- GPA: 3.5/4.0
- Courses: Python, SQL, Database Systems, Data structures and Algorithms, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Reinforcement Learning, Big Data.

Tran Dai Nghia High School for the Gifted   2017 - 2020

High school Degree, Mathematics
- GPA: 9.1/10

HONOR/CERTIFICATE

- Venture Leader Scholarship Recipient *(Quest Ventures)*
- AI Agentic Design Patterns/ AI Agents in LangGraph/RL from Human Feedback *(deeplearning.ai)*
- Probability - The Science of Uncertainty and Data/ Fundamental of Statistics *(MITx/Edx)*
- Applied Data Science Lab *(WordQuant University)*
- Machine Learning Specialization/ Natural Language Processing Specialization *(deeplearning.ai/Coursera)*
- Achieving a position in the top 5% of the leaderboard in WIDS Datathon 2023 *(Kaggle)*