PHAM KINH QUOC

+81 80-4721-4151 ● phamkinhquoc2002@gmail.com ● https://www.linkedin.com/in/kinh-quốc-phạm-512642219 ● https://github.com/phamkinhquoc2002

INTRODUCTION

A data science and AI enthusiast with experience in Data Engineering, MLOPs and **LLM**. Seeking an internship or full-time position in the field of **Artificial Intelligence** and **Data Engineering**, both in applied science and research.

EDUCATION

Hanoi Highschool for Gifted Students   Graduate in May 2020

Tokyo International University   D.B.I   Graduate in August 2024
Relevant Coursework: Big Data, Python in Data Science, Statistics, AI Products and Business Development.

PROFESSIONAL EXPERIENCE

Tokushukai System Information, Osaka, Japan: **AI Engineer**   November 2024 – Now
- Built the **RAG system** integrating **reasoning frameworks**, **multi-agent collaboration** and **tool-calling agents** for the company, from research, optimization to deployment operations.
- **Aligned** LLMs through **DPO, GRPO, SFT**, enabling efficient **long-context summarization** of medical records, leveraged **distributed training** methods like **FSDP, DDP** for scalability.
- Optimized and deployed AI systems using **Docker**, **Google Cloud infrastructure**, **Kestra**, **Grafana**, **Prometheus**.

NAL Solution, Tokyo, Japan: **Software Engineer Intern**   April 2024 – June 2024
- Worked on a team as a back-end developer to build a web app for job hunting, which won the best award for **"Best Internship Projects"**, beat 4 other teams.
- Used **NestJS** to create a **CRUD** pipeline and **PostGre-SQL** to build the back-end database.

ArchivePDF, United States (Online): **Data Scientist**   July 2022 – March 2024
- Performed **Sentiment Analysis** for topic classification using **scikit-learn** and **nltk**.
- Analyzed and pre-process data, performed **anomaly detection**.

Hidden Archive, Online: **Data Scientist**   April 2022 - December 2023
- Applied **Correlation Analysis**, **BERT** model and **Topic Modeling** using **nltk** and **seaborn, pandas** to conduct market research for the company's exhibition "Archivism 2022".

PROJECTS

End-to-End Alignment Finetuning: DPO, GRPO and SFT

A Python-based command-line interface for fine-tuning, optimized by **Unsloth**, for three training techniques: GRPO, DPO and SFT.

- Techstacks: transformers, trl, accelerate, unsloth.

Conversational Agents: Information Validator

And end-to-end project using **Open AI API** with **AutoGen** to build a information validator Agentic system that assess the trustworthiness and quality of provided internet content.

- Techstacks: openAI, autogen, langchain, streamlit.

Synthetic Data Generator: An Agentic Approach

A **Multi-Agentic** framework/library which leverages **Long-term Memory** and **Retrieval Augmented Generation** to generate synthetic datasets, for different purposes like knowledge distillation training or reinforcement learning.

- Techstacks: langgraph, vllm, openai, google-genai.

SPECIALIZATION

- LLM: Retrieval Augmented Generation, Multi-Agentic Collaboration, MCP, Reasoning LLMs,Instruction Finetuning (Lora, QLora, RLHF, DPO, DDP, FSDP), Knowledge Graphs, Multimodal, Distributed Training (Model Parallelism, Data Parallelism).

- Data Engineering: ETL Pipelines, CI/CD Pipelines, DevOps, Data Warehouse, Distributed Data Processing, Workflow Orchestration.

- Cloud and Infrastructure: AWS, Google Cloud, Docker, Kubernetes, CUDA.

- Programming Language and other tools: Python, C++, Javascript, Pytorch, Git, Linux, Terraform, Neo4j, Postgre, MySQL, Kestra, Apache Spark, Apache Kafka, Redis, Prometheus, Grafana.

- Notable Frameworks: TRL, langchain, llama-index, autogen, crewAI, smolAgents, fastapi, TensorRTX, vllm.

- Domain Knowledge: MLOPs, LLM system, Data Engineering.

CERTIFICATIONS AND COMPLETED COURSES

Introduction to Machine Learning by University of Munich Completed Course- 2023
This course provides foundational knowledge to machine learning.

Deep Learning Specialization by Andrew Ng Completed Course- 2023
Curated by renowned AI expert, Andrew Ng. It helped me delve into the foundations of deep learning.

Generative AI with Large Language Models Certification- 2024
A course provided by DeepLearning.AI. I learned about Generative AI project lifecycle, Prompt Engineering, fine-tuning and evaluation, Reinforcement Learning and LLM-powered applications.

MLOPS with AWS - Bootcamp Certification- 2024
A Practical course that helps me build Machine Learning pipeline in AWS.

NEO4J-powered LLM chatbot with Python Certification- 2024
A course provided by Neo4j to help me build a LLM-powered backend system using knowledge graphs.

AWARDS

Hello GPT-4o Hackathon Certificate of Completion - Top 32/168 2024

Assistants API and Trulens Hackathon Certificate of Completion - Top 26/103 2024

Second Prize - Mathematics in English at district level 2016

Consolation Prize - Hanoi Open Math Competition 2016