

NAM PHAM

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SUMMARY

- Have 1+ year of work experience as an AI engineer.
- Knowledgeable in machine learning, speech processing, NLP, LLM, RAG, AI Agent
- Familiar with model fine-tuning for specific use cases; familiar with prompt engineers and developing LLM-RAG applications.
- Knowledge of MLOps tools: Kubeflow, MLflow, CI/CD, Flask/FastAPI, Docker, AWS Sagemaker, Git
- Ability to build web demos/POC for AI solutions, see details and demos of my projects on namfam.netlify.app/projects

PROFESSIONAL EXPERIENCE

VINBIGDATA

AI Specialist (Jul 2023 – May 2024)

- Researched approaches to address domain mismatch challenges in speaker verification/recognition systems.
- Reproduced a paper's methodology, adapting it for Vietnamese speaker data
- Conducted in-depth surveys on datasets and methodologies, constructing baseline deep learning models for the voice anti-spoofing problem.
- Performed model testing, packaging, and deployed models via APIs for scalable integration.

VIETTEL GROUP

AI Resident (Apr 2023 – Jun 2023)

- Be selected through a rigorous admission process from a nationwide pool of candidates.
- Studied data science and AI skills through coursework and collaborative assignments.
- Conducted a project on dialect and gender identification for Vietnamese speakers, investigating the effectiveness of various pre-trained deep audio representations.

VIETTEL HIGH TECH

Research Engineer Intern (Jul 2022 – Nov 2022)

- Acquired foundational knowledge in signal and speech processing.
- Developed a **voice activity detection** model for speech signals using BiLSTM, achieving train accuracy of 96% and test accuracy of 90%.
- Researched data drift challenges to improve model robustness with real-world data.

EDUCATION

HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Bachelor in Computer Science (Fall 2018 – Present)

Cumulative CPA: 3.22/4.0

TECHNICAL SKILL

Machine Learning: Regression, Decision Tree, Clustering, SVM, LightGBM, XGBoost, Bagging/Boosting
NLP/Speech Processing: BERT, T5, GPT, LLMs, RAG, Speaker Verification
MLOps: Docker, Streamlit/React, Django/FastAPI/Flask, Docker, Git, Kubeflow, Mlflow

Database: PostgreSQL, MongoDB, Neo4j
Languages: Python, Javascript, SQL
Frameworks: Tensorflow/Keras, PyTorch, HuggingFace, Scikit-learn, Langchain, CrewAI
Cloud: AWS Sagemaker

PERSONAL PROJECTS

See details and demos of my projects on namfam.netlify.app/projects

TripCraft | CrewAI, Langchain, OpenAI, FastAPI, React, Chroma
developed an AI **multi-agent system** that creates detailed trip itineraries and suggests routes based on user preferences, budget, and travel style;
Tech stack:

StockAnalysis | CrewAI/LLamaIndex, OpenAI, FastAPI, React, Chroma
gather financial data, analyze trends, and generate a basic report; utilized

MiMi | RAG, Langchain, PostgreSQL, Chroma.
A sales chatbot helps people find product information (price,

specification) in an ecommerce website from structured data and unstructured data to answer the user question, using query routing, and reranking.

Vietnamese ABSA | LLama, Mistral, BERT, GPT
Fine-tuned open-source LLM for ABSA for Vietnamese. gain performance for baseline

Vietnamese Image Captioning | BLIP, LLava
Pretraining and fine-tuning an vision language model for Vietnamese

Vietnamese Text-to-SQL | CodeLLama
Fine-tuning a CodeLLama for generate SQL for querying database

CERTIFICATIONS

[DeepLearning.AI Generative AI with Large Language Models](#) Jul 2023
[Microsoft Certified: Azure AI Fundamentals](#) Jun 2023
[Stanford Machine Learning](#) Apr 2022
[DeepLearning.AI Tensorflow Developer](#) Apr 2022

[IBM AI Engineer](#) Mar 2022
[IBM Data Science](#) Mar 2022
[Google Project Management](#)
[IBM Product Manager](#)

ADDITIONAL INFORMATIONS

English: TOEIC certificate with score 795 - issued by IIG (Mar 2023)
Activities: Runner-up Iron Team (Jul 2023)

