DOAN DUC THANG

Address: Ha Dong, Ha Noi
Phone: 0978 851 058
Email: ducthang8558@gmail.com

SUMMARY

Graduated with an engineer degree in Telecommunications Engineering with a strong foundation in Machine Learning and Deep Learning. Experienced in AI research and projects involving image processing, network security, and agent-based systems. Focused on applying AI to embedded systems and intelligent software applications.

EDUCATION

Posts and Telecommunications Institute of Technology   **Aug 2020 - May 2025**
Degree of Engineer – Electronics and Telecommunications
GPA - 2.94

PUBLICATION

Leveraging Edge Intelligence for Solar Energy Management in Smart Grids - IEEEAccess
Link: https://doi.org/10.1109/ACCESS.2025.3570595
Xây dựng ứng dụng Tiny-VLLM cho chẩn đoán bệnh cây cà chua trên thiết bị biên - REV ECIT 2024

WORK EXPERIENCE

LUVINA SOFTWARE   **May 2025 - Present**
AI Engineer

Project: RAG system for internal documents
Description: This project focuses on building a RAG software system for question answer internal project documentation.
Responsibilities:
- Extracted text and images from documents using Unstructured and LangChain.
- Built a RAG pipeline capable of comprehending both textual and visual content.
- Generated image summaries and combined them with text for indexing.
- Implemented vector-based retrieval with Elasticsearch.
- Optimized system prompting and integrated Gemini for answer generation.
- Developed FastAPI endpoints to integrate the RAG system into other services.

Tech stack: Python │ Unstructure │ Langchain │ Postgres DB │ Gemini │ Elasticsearch │ FastAPI

Project: AI Agent Chatbot
Description: Developed an experimental AI Agent integrated with the Slack chat system to automate internal meeting scheduling and email sending.
Responsibilities:
- Designed the AI Agent Supervisor architecture using Gemini.
- Integrated Calendar and Gmail tools through an MCP server to enable LLM tool calling.
- Implemented Agent Planning using optimized Chain-of-Thought (CoT) prompting techniques.
- Implemented and deployed the automation workflow using self-hosted N8N.
- Integrated the AI Agent into the Slack chat application.

Tech stack: Python │ Gemini │ Calendar │ Gmail │ N8N

ICNLAB PTIT
Research Assistant

Project: Energy TimeSeries Forecasting

Description: This research was accepted for publication in the IEEE Access journal, focuses on optimizing energy consumption forecasting using advanced machine learning techniques.

Responsibilities:

- Collected and preprocessed time series datasets for training and evaluation.
- Developed and optimized forecasting models to improve prediction accuracy.

Tech stack: Pandas | Numpy | Pytorch

SKILLS

Technical Skills:

- **AI Skills:** RAG, Agent/MultiAgent, Finetune LLM
- **Programming Languages:** C++, Python
- **Framework:** Pytorch, Langchain, LangGraph, Onnx, TensorRT, FastAPI, VLLM

English Skill: Intermediate

CERTIFICATIONS

- B1 Aptis English   2024
- Certificate of Scientific Research   2024
- Certificate course in AI, BIG DATA by SAMSUNG   2023