PHUONG V.N NGUYEN

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PROFESSIONAL EXPERIENCE

Machine Learning Developer

Angle AI

Oct 2025 – Present Ho Chi Minh

- Researching and developing AI/ML models from scratch for mobile applications
- Exploring model design and training strategies based on existing datasets
- Conducting data preprocessing, evaluation to analyze model accuracy, robustness, and real-world behavior
- Integrating ML models into iOS (iPhone) applications
- **Technologies:** Python, Swift, Machine Learning, Data Processing, Mobile ML Deployment

Software Engineer

DEK Technology

Jan 2021 – May 2022 Ho Chi Minh

- Researched, tested, and validated new features developed for Session Border Gateway (SBG) systems
- llaborated on documentation and requirements for new feature development
- Collaborated with cross-functional teams on feature requirements, technical documentation, and validation plans
- **Technologies:** Erlang, Telecommunications, System Testing

Automation Engineering Intern

Ben Thanh Automation Company

Jun 2019 – Aug 2019 Ho Chi Minh

- Connected inverters to PLCs using Modbus RTU communication protocols
- Programmed and configured PLC systems for industrial automation
- Gained hands-on experience with industrial control systems
- **Technologies:** PLC Programming, Modbus RTU, Industrial Automation

KEY PROJECTS

Thesis: Fruit Classification using Deep Learning

Computer Vision & Deep Learning

May 2020 – Nov 2020

- Developed YOLOv4-based computer vision model to classify green vs. ripe fruits by color analysis
- Implemented using Python, OpenCV, and deep learning frameworks
- Simulated fruit sorting classification for agricultural applications
- **Technologies:** Python, YOLOv4, OpenCV, Deep Learning

SUMMARY

Machine Learning Developer with a background in software engineering and control & automation.
Focused on building systems that are reliable, thoughtful, and meaningful in real-world use.

SKILLS

Programming Languages

Python | SQL | C++ | Swift | Erlang

ML/AI Frameworks

PyTorch | OpenCV

Data Analysis

Pandas | NumPy | Matplotlib

Cloud & Tools

AWS | Git | Jupyter | Matlab

Methodologies

Machine Learning | Deep Learning | Computer Vision | RAG | Data Visualization

EDUCATION

Bachelor of Engineering

HCM University of Technology

Aug 2016 – Nov 2020

Major: Control Engineering and Automation
GPA: 7.49/10
Relevant Coursework: Machine Learning, Statistics, Programming, Control Systems

LANGUAGES

English
Italian
Chinese

RAG Chatbot

HR Assistant & Document Processing

2025

- Built intelligent Chatbot using RAG to help HR professionals extract insights from CV PDFs
- Evolved from local setup (Streamlit + ChromaDB + Ollama) to cloud-optimized solution (Groq + LLM)
- Implemented complete pipeline: PDF processing, embedding generation, vector storage, and natural language querying
- **Technologies:** Python, LangChain, Streamlit, ChromaDB, RAG

Teaching Assistant with GenAI

RAG & Large Language Models

2025

- Built intelligent teaching assistant combining RAG (Retrieval-Augmented Generation) with grounding techniques
- Implemented few-shot prompting using Google's Gemini 2.0 Flash model
- Delivered reliable, source-backed responses to enhance student learning experience
- **Technologies:** Python, Google Gemini 2.0, RAG, NLP

Football Data Analysis & Prediction

Sports Analytics & ML

2022

- Analyzed comprehensive dataset of football matches from 2018-2022
- Performed statistical analysis and feature engineering on sports data
- **Technologies:** Python, Pandas, NumPy, Machine Learning

COVID-19 Data Analysis & Visualization

Data Analytics & BI

2022

- Performed SQL queries on COVID-19 database to calculate death/infection percentages
- Analyzed highest and lowest rates across countries and continents
- Created interactive Tableau dashboard displaying global statistics and continental breakdowns
- **Technologies:** SQL, Tableau, Data Visualization

Game with Adversarial Search

Algorithm Implementation

2024

- Implemented Tic-Tac-Toe using Minimax algorithm with Alpha-Beta pruning
- Added depth-based scoring optimization to improve game performance
- Demonstrated understanding of adversarial search algorithms
- **Technologies:** Python, Algorithm Design, Game Theory

CERTIFICATIONS

IELTS 7.0
IDP Viet Nam

TOEIC 840
IIG Viet Nam

Machine Learning Specialization
Coursera, DeepLearning.AI

+3 Courses about LLM
DeepLearning.AI

Google Data Analytics Professional Certificate
Coursera

GenAI Intensive Course
Kaggle

SQL Advanced
HackerRank Certificate

SQL 50
LeetCode