

PHUONG V.N NGUYEN

Huynh Tan Phat St. Dist.7
@nvnp203@gmail.com

HO CHI MINH, VN
Portfolio

tel:+84332008420
Phuong Nguyen

20 Mar 1997
nphuong302



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
- Achieved automated fruit sorting classification for agricultural applications
- Technologies:** Python, YOLOv4, OpenCV, Deep Learning

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

SUMMARY

Software engineering experience, specializing in machine learning, computer vision and AI applications. Proven track record in deep learning (YOLOv4), data analysis, and building intelligent systems using GenAI. Seeking to leverage strong programming skills in Python, SQL, to drive data-driven insights and develop ML solutions as a Data Scientist/ML Engineer.

TECHNICAL SKILLS

Programming Languages

Python SQL C++ R Erlang

ML/AI Frameworks

TensorFlow PyTorch OpenCV

Data Analysis

Pandas NumPy Matplotlib

Tableau

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

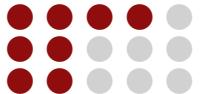
Relevant Coursework: Machine Learning, Statistics, Programming, Control Systems

CERTIFICATIONS

-  IELTS 7.0
IDP Viet Nam
-  Machine Learning Specialization
Coursera, DeepLearning.AI
-  Google Data Analytics Professional
Certificate
Coursera
-  GenAI Intensive Course
Kaggle
-  SQL Advanced
HackerRank Certificate
-  SQL 50
LeetCode

LANGUAGES

English
Italian
Chinese



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

Full-Stack Web Application

Web Development & Database

⌚ 2023

- Built complete web application using Flask framework
- Implemented user authentication, account management, and note-taking system
- Designed database schema and implemented CRUD operations
- **Technologies:** Python, Flask, SQL, Database Design

PROFESSIONAL EXPERIENCE

Software Engineer

DEK Technology

⌚ Jan 2021 – May 2022

📍 Ho Chi Minh

- Tested and troubleshooted telecommunication applications for network infrastructure
- Collaborated on documentation and requirements for new feature development
- Developed solutions using Erlang for high-concurrency telecom systems
- **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