Huynh Tan Khang

0867772597. htkhangg@gmail.com Ho Chi Minh City, Vietnam https://github.com/tkhangg0910

- linkedin.com/in/htk0910
- https://tkhangg0910.github.io/

AI ENGINEER

I'm Huynh Tan Khang and currently a CS student at UIT in Ho Chi Minh. In my leisure time, you'll often find me listening to music and researching. This dual interest not only provides relaxation but also fuels my curiosity especially in AI term because my life motto is never to be satisfied with oneself about the world around me. In terms of my future vision, I aspire to become an AI engineer

EDUCATION

Pursuing Bachelor of Computer Science

International Joint program of University of Information Technology(UIT) - Birmingham City University

https://oep.uit.edu.vn/vi/nganh-khoa-hoc-may-tinh-bcu

CGPA: 3.7

Oct 2023 - May 2026

KEY COMPETENCIES

Language, Tool, Skill:

- Language: C++, Java, Javascript, Python, SQL
- Tool: Github, Linux, Jupyter Notebook, Venv, Docker, AWS
 Skill: Problem Solving, Teamworking, Researching and
- Communication, English Representation
 English: 6.0 lelts
- Framework:

change

EXPERIENCE

Research Assistant

UIT - June , 2024 to August, 2024

- Machine Learning: Scikit-learn, XgBoost, LightGBM ,Optuna, Keras, Tensorflow, OpenCV, YOLO, Pytorch, OpenCV, Pillow, HuggingFace
- Data Analytics: Pandas, Numpy, Matplotlib, Seaborn, Plotly

Applied Machine Learning in Mekong Delta's climate

 Web Development: Nodejs, Expressjs, React.js, Next.js, Spring Boot, FastAPI

PROJECT

Smartphone Price Analyze And Prediction (Individual)

https://github.com/tkhangg0910/Smartphone-Analysis-And-Prediction

Languge and tool: Python, Pandas, Matplotlib, Seaborn, Plotly, XgBoost, LightGBM, Optuna Key Skills:

- Perform Exploratory Data Analysis (EDA) to uncover patterns, identify relationships, and detect anomalies in data
- Conduct data wrangling and preprocessing tasks, including handling missing values, one-hot encoding, and ordinal encoding
- Implement cross-validation, hyperparameter tuning using Scikit-learn's RandomSearch, GridSearch, and Optuna for optimization

PACMAN-Deep Q Learning (Individual)

https://github.com/tkhangg0910/RL-Pacman-DQN

Language and tool: Tensorflow, Keras, OpenCV, Gymnasium, ale-py, Matplotlib, Venv

Key Skills:

- Applied Double Deep Q-Learning architecture using CNN to build models with Keras and TensorFlow Functional API.
- Implemented Experience Replay to enhance the training process
- Utilized OpenCV for preprocessing tasks such as normalizing , cropping, rescaling, and converting images from RGB to grayscale
- Utilized Linux for training with GPU support, using a virtual environment for dependency management and efficient execution.

The Vanguard Warrior - Fire Protection System (Group)

https://github.com/The-Vanguard-Warrior

Language and tool: Ultralytics(YOLOv8), Sklearn, Flutter, Flask, OpenCV, Arduino Key Skills:

- Leveraged transfer learning with the YOLOv8 model to detect fire, smoke, which trained on GPU using Google Colab.
- Developed software applications using **Flutter** for the frontend and **Flask** for the backend.
- Employed Scikit-learn's Random Forest algorithm to detect fires based on sensor data.

Face Recognition System (Individual)

https://github.com/tkhangg0910/Face-Recoginition-System

Language and tool: Ultralytics(YOLOv8), Pytorch , FastAPI, Nextjs, OpenCV, Pillow, dlib, Milvus

Key Skills:

- Leveraged transfer learning with the YOLOv11-Face and Inception-Resnet model to detect face and embed face
- Developed software applications using **FastAPI** as Backend, **Nextjs** as Frontend, and **Milvus** as **Vector Database** to perform better vector search and store.
- containerize all of source code for deployment using Docker
- Using Face Alignment and store multiple image of each person to make a model more robust and prediction more accurate,

n • • •

CERTIFICATIONS

Machine Learning Specialization (Coursera)

Stanford, DeepLearning.Al

Deep Learning Specialization (Coursera) DeepLearning.Al Mathematics for Machine Learning and Data Science Specialization(Coursera) DeepLearning.Al

Mathematics For Machine Learning Specialization (Coursera) Imperial College London

Data Analytics with Python Programming Language Cybersoft