

NGUYEN VAN DAT

AI ENGINEER

Dong Tam, Hai Ba Trung , Ha Noi



Education

Hanoi University of Science and Technology

Aug 2017 – Aug 2022

Engineer of Electrics and Telecommunications

GPA: 3.21/4.0

Technical Skills

- **TOEIC:** 640
- **Programming Languages:** Python, C++
- **Developer Tools:** VS Code, Pycharm
- **Technologies:** K8s, Kafka, GitHub, Docker, GitLab CI/CD, Stable Diffusion, LLM, Langchain (RAG)
- **Framework:** Triton, Pytorch, Tensorflow, FastAPI, ONNX, Keras
- **Database/Storage:** MySQL, MongoDB, S3

Experience

HBLab

Apr 2024 - Now

AI Engineer

Ha Noi

- Participating in the development Japanese POOCR system (Extract Layout, Table Reconstruction)
- Maintaining and developing functions for the Japanese OCR system (C++, Java)
- Researching pipeline LLM using Langchain(RAG)

Onsite MB Bank

Mar 2022 - Mar 2024

AI Engineer

Ha Noi

- Developed a solution and pipeline **full pipeline OCR** for Bank. Pipeline: Text Detection, Rotate Image, Text Recognition, Extraction Information. **Optimize:** Accuracy about **94% - 95% per paper**, and Performance about **1s - 3s per paper** on triton
- Participating in the backend API development of the **MLOps MB Bank. Automated Model Deployment and Training Functionality** (Kafka, MongoDB)
- Developing and Building an eKYC Solution for Banking. Accuracy **OCR: 98%** , developing a model classification id card(21 classes) with **accuracy 99%**
- Building and Developing a full pipeline **signature verification**. Pipeline: Model signature detection, Model the role of the signer detection to find out if the person signed or not
- Developing a **Feature Extraction** Model for Image Repository in a Bank using EfficientNet Model.

Viettel Post

Jan 2021 – Mar 2022

Intern - AI Engineer

Ha Noi

- Developing an Object Detection Model for Viettel Post Warehouse. Programming C to control servo (a laser distance sensor be assembled with a servo), return a distance from laser to object. Programming python to segmentation object with U2Net model, return area of the object. Return a result of estimate the volume. Volume = Area of the object * Height

Lab EDABK

May 2020 – Aug 2022

Research Student

HUST

- Building and developing a model for **detecting defects** in phone screen products, deploying it on a server.
- Building and developing a model to address the problem of **detecting and tracking intruders** in a monitored area using the **DeepStream** platform.

Prizes and Awards

Hackathon

Jun 2021

Archive 2nd

Hackathon

- Won Second Award: International Hackathon “IT Solutions for Business” held by Irkutsk National Research Technical University on June 2-7, 2021 Master’s Scholarship at Irkutsk National Research Technical University

HUST

Aug 2020

Annual Incentive Scholarship of HUST University (20201)