

Hồ Chí Minh City, Vietnam

Summary_

Highly motivated and technically proficient individual with a passion for leveraging data-driven insights to solve complex problems. Possess strong skills in data pipelines, machine learning, and programming. Eager to apply theoretical knowledge in a practical setting to contribute effectively to data-driven projects. Seeking an internship opportunity to further develop skills and gain hands-on experience in the field of data science, data engineering, or AI engineering.

Education

University of Information Technology - VNUHCM

HCMC, VN

Bachelor of Computer Science

Sept 2021 - Current

Current GPA: 3.42/4.0

Skills_

Web development HTML, CSS, Flask, FastAPI.

Database SQL (MySQL, MSSQL Server), NoSQL (MongoDB).

Frameworks & Libraries Tensorflow, Pytorch, OpenCV, Sklearn, Selenium, Streamlit, Gradio, PySpark, Kafka.

DevOps Docker.

Al services Azure Al.
Others Ubuntu server.

Language English (IELTS 6.5).

Work Experience

Multimedia Communications Laboratory (MMLab) - UIT

HCM City, Vietnam

Undergraduate Research Assistant

May 2024 - Current

• Researcher in Computer Vision, contributing in establishing Scientific Paper.

University Projects

License Plate Recognition

Leader, Researcher

- Project Description: Developing a system to extract text from license plate via images/videos.
- Train YOLOv8 on custom dataset and use the pretrained model WPOD-NET to detect license plate.
- Train SVM, kNN model to classify characters from license plate cropped image.
- Use Streamlit/Flask to provide demo.

Vietnamese Handwritten OCR

Leader, Researcher

- Project Description: Building models to extract text from Vietnamese handwritten images.
- Generate images to enrich dataset by using handwritten fonts.
- Implement CRNN architecture and use VietOCR library to train and infer OCR model as well as finetune PaddleOCR.

Real-time Credit card Fraud Detection

Leader, Researcher

- Project Description: Developing a system to detect fraud transaction in real-time.
- Apply SparkSQL to interact with large amount data in MySQL database.
- Train Decision Tree, SVM model with SparkML.
- Stream big data by using Kafka and do real-time prediction.

1

Image-based Pneumonia Detection

Leader, Researcher

- Project Description: Building models for predicting whether pneumonia or normal via X-ray images.
- Apply computational thinking process for problem solving.
- Extract deep features with VGG19 and EfficientNetB2.
- Use ML models such as SVM, kNN, Naive Bayes, Random Forest to classify images.
- · Use Gradio to provide demo.

DGA-based Botnets and DNS Homographs Detection through Integrated Deep Learning

Leader, Researcher

- Project Description: Experimenting proposed models from scientific paper.
- Implement S-CNN, S-LSTM, S-GRU, S-B-LSTM, S-B-GRU to calculate similarities between two domain names.
- Implement LSTM, GRU, CNN, CNN-LSTM, B-LSTM, B-GRU to classify DGA domains.

Telco Churn Prediction & Analysis

Member

- **Project Description:** Using Data Mining skills to analyze whether customers are likely to churn or not and using Machine Learning algorithms for churn prediction.
- · Analyzing characters of churn customers by plotting chart combined with Apriori algorithm, then suggest new bussiness approach.
- Implement Decision Tree, Random Forest, XGBoost to predict churn.

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2022 **3rd Semester**, UIT Academic Encouragement Scholarship

Certifications

2023 **Problem Solving Using Computational Thinking**, University of Michigan

Activities

Communist Youth Union of Computer Science Faculty

HCMC, VN

Member of The Executive Committee

2021 - Present

Organizing Commitee:

- Trainee Program a program training for freshman of UIT.
- Wecode Challenge a coding challenge for freshman of UIT in Wecode online judge.
- UCPC an ICPC-like competitive programming contest by the Computer Science Faculty.