

TRUONG PHAT-NGUYEN

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EDUCATION

Ho Chi Minh City University of Industry and Trade

Ho Chi Minh City, Vietnam

Bachelor's in Information

Sep 2020 – May 2024

- **Graduation thesis:** Building human action recognition applications
- **Specialized project score:** 9.0/10
- **Honors:** 3rd prize in the Student Scientific Research Competition (May 2024), HUIT Encouraging Scholarship Sem I, 2023/2024, Top 24 Vietnam Datathon 2023 Contest (Dec 2023), 3rd prize in the English Debate Competition about Information Technology (May 2023)
- **Relevant Coursework:** Statistical Probability, Linear Algebra, Machine Learning, Data Mining, Data Analysis and Forecasting, Deep Learning

Ho Chi Minh City University of Industry and Trade

Ho Chi Minh City, Vietnam

Master's in Information

Sep 2024 – Present

SKILLS

Programming Languages: Python, C, Java, C#, SQL, JavaScript, TypeScript, R.

Soft Skills: Problem-Solving, Teamwork, Communication, Leadership, Critical thinking, Analytical Thinking

Technical Skills: OpenCV, Numpy, Matplotlib, ASP.NET, Microsoft SQL Server, Tensorflow, Power BI, Tableau, TensorFlow, PyTorch, OpenCV

WORK & EXPERIENCE

New Tech Solutions

Ho Chi Minh City, Vietnam

Software Engineer

Apr 2024 – Sep 2024

- Participated in the Web Development Taskforce to provide **AngularJS** sites to internal customers.
- Developed and maintained websites using **ASP.NET**, focusing on back-end development and API
- Used Postman to test **API**, performing testing and debugging to ensure product quality

Financial Services Lenken

Remote - Ha Noi, Viet Nam

Data Analyst

Mar 2024 – Aug 2024

- Designed and implemented machine learning models using **Python** to enhance credit scoring accuracy and reliability
- Engaged in researching, developing, and designing algorithms to assess and predict comprehensive customer risk profiles, particularly focusing on forecasting consumer behavior and spending habits.
- Designed the flow for the database using **PostgreSQL**, storage facilities, and processing to maximize the information accessible to customers

Hung Minh Group

Ho Chi Minh City, Vietnam

AI Intern

Jul 2023 – Jan 2024

- Supported the business by accurately extracting and preprocessing data from websites, **ensuring 90%** of the data was precise
- Addressed data mining challenges with tools by implementing users' behavior.
- Delivered high-quality data to aid business decision
- Design and optimize data tables to increase analytical efficiency.

RESEARCH

RESEARCH ON COMMUNITY DETECTION ALGORITHM IN SOCIAL NETWORK DATA – APPLICATIONS TO BUILD BIPOLAR DATA IN THE FORM OF BIPOLAR GRAPH

Feb 2024 - Aug 2024

The-Sang Do, Truong-Phat Nguyen, Advised by: **PhD.Bich-Ngan T. Nguyen**

- Researched algorithms to detect for the community are Greedy Modularity and Directed Louvain.
- Built bipartite graphs applied to social network data and graph data construction process

PROJECTS

Action-Recognition Website

- Research algorithm LSTM (Long Short-Term Memory), model RNN (Recurrent Neural Network), and using library MediaPipe of Google to action recognition
- Build the user interface for users using Streamlit.
- Tools Used: **Python**
- *Framework Used: Streamlit.*

Prediction and Classification of Brain Tumor

- Preprocess and analyze Brain Tumor MRI Dataset on Kaggle.
- Research models SVM (Support Vector Machine) and CNN (Convolutional Neural Network) to predict the tumor.
- Infer that the SVM model exhibits higher accuracy compared to the CNN model.
- *Tools Used: Python*

Web Crawler

- Crawl data from Facebook, and YouTube using a library of Python is BeautifulSoup and framework Selenium and Google API
- Optimize the algorithms TF-IDF, Linear Regression, and CountVectorizer to predict news trends on social networks
- Create a user interface for analyzing data using Flask.
- *Tools Used: Python, Matplotlib, Google API and FastAPI*

IoT Device Management Website

- Research and build a database using SQL for the website.
- Provide real-time communication using an ASP.NET backend and AngularJS frontend.
- Build some features like adding, deleting, and editing products. User authorization and two-factor authentication features.
- Manage source code and project by Git.
- *Tools Used: C#, ASP.NET, Angular JS, GitHub.*

Credit Risk Scoring System

- Develop a flow for the database, storage facilities, and processing to maximize the information accessible from customers.
- Research algorithms to evaluate and predict comprehensive customer risk profiles.
- Manage source code and project by Git.
- *Tools Used: Python, Postgresql, GitHub.*

CERTIFICATIONS

Certifications & Training: Data Analytics Certificate (Google), IT Automation with Python Certificate (Google), Machine Learning Certificate - DeepLearning.AI (Coursera), AI Essentials Certificate (Google)

LANGUAGE

English (Intermediate), Vietnamese (Native)