TRUONG PHAT-NGUYEN

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EDUCATION

Ho Chi Minh City University of Industry and Trade — **Ho Chi Minh City, Vietnam**
Bachelor 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

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

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 Beautiful Soup 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.***

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 feature.
- 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.***

SKILLS & CERTIFICATIONS

Research Domain: AI, Machine Learning, Computer Vision, Optimization.
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
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)