NHIEN LUU

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DATA SCIENTIST

Experienced Data Scientist with 4 years of expertise in researching scientific papers, developing, training, testing, and deploying AI models in the field of Computer Vision. Additionally, possesses 1 year of experience as a Data Engineer, building ETL pipelines to collect and transform data from multiple sources using Azure cloud tools. Skilled at managing independent projects while also excelling in collaborative production environments from concept to deployment. Proficient in Python, PyTorch, TensorFlow, Docker, Kubernetes, Azure, MS SQL, and MongoDB.

• Problem Solving • Machine Learning and AI • Database Management • Data Manipulation and Analysis
• Statistical and Mathematical Knowledge • Data Visualization • CI/CD • Containerization • MLOps

Languages: Python
Deep Learning Frameworks: PyTorch, TensorFlow, Scikit-learn
Cloud: Azure (Azure ML, Azure Synapse, Azure function)
Web Frameworks: Flask, Fast API
Databases: MS SQL, Mongo DB
Design Patterns: Singleton, Observer
SDLC: Agile
Tools: Docker, Kubernetes, Jenkins, GitHub, Selenium, MySQL
Platforms: Windows, Linux, MacOS
Big Data: Hadoop, Spark

PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a* ***Master's Degree in Computer Science*** *(Available for full-time, W-2 employment).*

FPT SOFTWARE, Ho Chi Minh, Viet Nam • 04/2021 – 02/2024
FPT Software is one of the largest outsourcing technology company in Southeast Asia..

Data Scientist
Gathered and analyzed customer requirements, propose solutions, and implemented them upon customer approval.
- Built predictive models using XGBoost and DNN, achieving 85% accuracy in defect and strength prediction, reducing experiment costs and time.
- Developed and maintained ETL pipelines on Azure Synapse, automating data flow from Coca-Cola vending receipts and payment invoices to AB Initio.
- Designed and deployed ETL pipelines on Azure Synapse for seamless daily data synchronization from on-premises to Azure, enhancing scalability and analytics.
- Implemented a CNN model for automated evaluation of automotive clay prototype images, achieving 90% accuracy and gaining customer approval for practical use.
- Developed a GAN-based AI model to embed identifier codes in images for copyright protection without quality loss, enabling accurate extraction of embedded codes.
- Automated data collection and training of a Prophet Time Series model on Azure Cloud for store foot traffic prediction, optimizing staffing and inventory management.
- Designed and led an ML/DL training program, mentoring AI engineer freshers and strengthening the company's AI talent pool.

Technologies Used: *Python, Tensorflow, Pytorch, Machine Learning, Deep Learning, MLOps, Docker, Azure Cloud.*

DHL EXPRESS, Ho Chi Minh, Viet Nam • 08/2020 – 03/2021
International logistics company.

Data Science
Studied the business of company and developed a predictive model to assist or replace human workers, aiming to reduce costs and enhance productivity.
- Developed a model to extract information from the variety types of invoices using Python, object detection model and OCR with augmentation techniques to handle data shortage and low diversity.

- Built a classification system to classify products into different tax codes using text processing, text embedding and Xgboost, achieving overall accuracy of 88% and over 95% in some product groups, helping to increase productivity in this process.

Technologies Used: *Python, Pytorch, Object Detection, OCR, Text Detection.*

FPT SOFTWARE, Ho Chi Minh, Viet Nam • 08/2018 – 08/2020
FPT Software is one of the largest outsourcing technology company in Southeast Asia.

AI Engineer
Gather and analyze customer requirements, propose solutions, and implement them upon customer approval.
- Developed a facial landmark detection model for in-car diver images, improving accuracy in low visibility and accelerating data labeling by 20%.
- Built an AI health monitoring system using OpenPose for elderly step counting, achieving 95% accuracy and aiding medical staff in activity tracking.
- Researched and developed a fingerprint authentication solution using image feature extraction, enhancing security and biometric verification accuracy.
- Developed an AI model for detecting abnormal customer interactions in call centers using STFT and CNN, improving issue identification and service quality.

Technologies Used: *Python, Tensorflow, Pytorch, OpenPose, Image Feature Extraction, Facial Landmark Detection, Audio Processing.*

ACADEMIC PROJECTS

Maharishi International University (2024)
- **Policies for the Students:** Built a full-stack web application using React for the frontend and Express for the backend, managing policis for students including posting, commenting, voting, sharing policies and authorizating for guests and registered users. Utilized TypeScript, React, Express, Docker.

- **Travel Buddy:** TravelBuddy is a web-based travel planning application designed to simplify and enhance the way users organize their trips. The platform provides personalized travel plans, destination recommendations, and a forum for anyone who loves to travel where people can share, comment and push their pictures. Utilized TypeScript, OpenAI, Angular, Express.

PERSONAL PROJECTS

Photo Posing Assistant 2024: PoseGuide is a web application designed to enhance the photography experience for tourists by offering curated pose suggestions at popular attractions. Users can explore trending poses shared by other visitors, receive step-by-step posing guidance, and get their photos graded based on the similarity with original pose. Utilized Python, Openpose, OpenAI, MLops, Kubernetes, Jenkins.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 04/2027)
Maharishi International University, Fairfield, Iowa

Key Courses: Machine Learning, Algorithm, Modern Web Application, Web Application Architecture

Bachelor in Mathematics Education
Quy Nhon University, Quy Nhon, Viet Nam (09/2016)