Hoang Viet Nguyen

AI Engineer Intern

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Objective

- A third-year AI major student with a strong passion for mathematics and algorithms. Hardworking and eager to learn, I thrive on solving real-world challenges through innovative solutions. With a friendly and collaborative mindset, I am always ready to expand my expertise and contribute effectively to any team.

Education

2022 – 2026 **Bachelor of Artificial Intelligence**.
FPT University Quy Nhon, Vietnam.
GPA: 3.64

Honors & Rewards

2022 – 2025 **Gold Medal in FPT JS Hackathon.**.
2023 **Top 10 in Violympic Math Competition (Algebra Category).**.
2022 **Honorable student for all semesters.**.
2021 **Full Scholarship awarded through the FPT IQ Assessment Exam.**.

Projects

- **Improving Regression for Predicting Length of Hospital Stay**.
  Developed a regression model to predict hospital stay duration using the MIMIC-III dataset. Optimized model performance, reducing MAE from 3.65 to 3.2 by applying Feature Engineering & Hyperparameter Tuning.
  - Role: Team Lead
  - Team size: 4
  - **Technologies:**: Python, Scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, Seaborn
  - **Link Report**: Improving Regression for Predicting Length of Hospital Stay Report

Projects (continued)

- **ChartOCR**.
  Focused on extracting data from bar charts and pie charts using YOLO for detection and segmentation, combined with PaddleOCR and custom algorithms to retrieve column values.
  - Role: Team Lead
  - Team size: 4
  - **Technologies:**: Python, PyTorch, Ultralytics, PaddleOCR, OpenCV, Pandas, NumPy, Matplotlib
  - **Link Github**: github.com/hoangziet/ChartInsight

- **Quy Nhon Weather Forecast**.
  Collected and processed weather data in Quy Nhon, Vietnam, using GRU for time series modeling and XGBoost for optimization, then built a forecasting API with Flask.
  - Role: Data Analyst
  - Team size: 3
  - **Technologies:**: Python, Meteostat, TensorFlow, PyTorch, XGBoost, Flask, Pandas, NumPy
  - **Link Github**: github.com/thangthewinner/weather_forecast

- **SOS Hand Gesture Detection System**.
  Implements a real-time hand gesture detection system that can recognize the SOS signal (distress signal) in a video stream. The system utilizes Mediapipe's hand-tracking capabilities and leverages MQTT messaging and email notifications for alerting in case of emergency.
  - Role: Full Stack Developer
  - **Technologies:**: Python, MediaPipe, TensorFlow, PyTorch, Pandas, NumPy, OpenCV, MQTT
  - **Link Github**: github.com/hoangziet/SOS_detector_mediapipe

Skills

Programming Languages:	Proficient in Python, C++, and C.
Artificial Intelligence	Practical experience with AI frameworks like Keras, TensorFlow, PyTorch, and Scikit-learn.
Data Analysis	Skilled in data visualization and storytelling using Matplotlib, Seaborn, Power BI, and R.
Tool, OS and Platforms	Linux, Anaconda, Git, GitHub.
Web Scraping	Proficient in extracting data using Python libraries such as BeautifulSoup, Selenium, and Scrapy.
Database & Cloud	MySQL, SQL Server, SQLite, Azure Cloud.
Language	Vietnamese (native), English (upper intermediate), Japanese (basic)
Soft Skills	Problem-solving & Critical Thinking, Team Collaboration, Communication, Active Listening.

Certifications & Courses

Certifications

- TOEIC Listening & Reading (Score: 850).

Courses

- IBM Introduction to Machine Learning Specialization (2024).
- DeepLearning.AI Deep Learning Specialization (2025).

References

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