LÊ VIỆT ANH

AI ENGINEER

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ABOUT ME

Since high school, I have had a strong passion for mathematics and have achieved notable accomplishments in various math provincial-level competitions. As I pursued higher education, I decided to study Computer Science to explore the field of Artificial Intelligence. In university, I have consistently achieved high grades in mathematics-related subjects.

EDUCATION

Posts and Telecommunications Institute of Technology 2023-2028
Major: Computer Science GPA: 3.23

WORK EXPERIENCE

INDA 02/03/2025 – 02/04/2025

- **Role:** AI engineer intern
- **Description:** deployed AI Automation and AI Agents into business processes (using N8N automation). Developed a system of prompts for employees to use AI more easily and effectively and guided departments on proper AI utilization.

AWARDS

Second prize in the ICPC Academy-Level Competition 09/2024
Link: https://drive.google.com/file/d/1Sf9uQYykaPv2LWMzirFhHXW6B7oLKGxg/view?usp=sharing

PROJECT

Parking ticket management

- **Description:** Collected a dataset for license plate detection and digit recognition. Trained separate models: one for detecting license plates and another for recognizing the digits on the license plates. Then applied post-processing logic to organize the detected digits and reconstruct the complete license plate number. Developed a parking lot management system using the PyQt5 framework for frontend.
- **Features:** Add vehicles (recording entry time and capturing images) when they enter; remove vehicles when they exit and exported an Excel file containing all vehicle entry and exit information for the day.
- **Technologies:** OpenCV, Numpy, YOLO, PyQt5.
- **Link:** *https://github.com/vietanhlee/parking-ticket-management*

Timekeeping

- **Description:** Used the YOLO network and a labeled dataset of human faces to create a model for human face detection. Then collected multiple face samples of each individual using this model and fine-tuned some last layers of MobileNetV1 to create a model that can distinguish individuals. Developed a timekeeping software using the PyQt5 framework for frontend.
- **Features:** Add new faces of individuals; trained and exported a CNN model for facial recognition; timekeeping (check-in, check-out) and exported an Excel file containing all check-in and check-out information for the day.
- **Technologies:** OpenCV, Numpy, YOLO, Tensorflow, PyQt5.
- **Link:** *https://github.com/vietanhlee/timekeeping*

Dectect fire

- **Description:** created a fire detection model trained on a custom-labeled dataset in YOLO format. Then integrated real-time fire alerts into Telegram for instant notifications.
- **Features:** sends an alert to the Telegram app whenever a fire is detected.
- **Technologies:** OpenCV, YOLO, Telegram api.
- **Link:** *https://github.com/vietanhlee/Detect-Fire*

Table Extraction from Images to CSV/Excel

- **Description:** Developed a tool to extract structured table data from images or PDF files into CSV/Excel formats. This is especially useful for automating the extraction of financial reports or other structured documents. The project uses PaddleOCR for text detection to identify word-level bounding boxes. These detected boxes are then passed to EasyOCR's recognition backend, allowing for parallel OCR processing, which significantly improves both speed and accuracy compared to processing each box individually. A post-processing module is applied to group recognized texts into appropriate table columns and rows, and convert them into structured CSV/Excel output.
- **Features:** Extracted tabular data from scanned images or PDF documents and restructured text into well-formatted tables exported to CSV/Excel files.
- **Technologies:** OpenCV, YOLO, PaddleOCR, Easyocr, numpy, pandas.
- **Link:** *https://github.com/vietanhlee/Table-Extraction-from-Images-to-CSV-Excel*

CERTIFICATIONS

B1 Aptis ESOL Certification 06/2024

Link: https://drive.google.com/file/d/1MIGDI0gtTY2caSeJeoQFoVW-Xh49Lzwj/view?usp=sharing

Machine Learning - Fundamental of Python Machine Learning 10/2024

Link: https://www.udemy.com/certificate/UC-bd54a00e-55d1-4c47-9de8-cd20ed2df6d9/

TECHNICAL SKILLS

Programming Languages: Python, C++

AI & Data Science Libraries

- **Data Processing & Analysis:** NumPy, Pandas, Scikit-learn
- **Data Visualization:** Matplotlib, Seaborn
- **Web Crawling & Automation:** Selenium, BeautifulSoup
- **Computer Vision:** OpenCV, Ultralytics-YOLO
- **Deep Learning & NLP:** TensorFlow, PyTorch, Hugging Face, LangChain

GUI Development: PyQt5

Development Tools & Platforms: Git, Docker, Google Colab, Ubuntu

ACTIVITIES

Student-level scientific research Academy-Level

Applied Python programming to visualize and illustrate the definitions, properties and transformations of technical subjects to enhance learning and understanding.

SOFT SKILLS

Good at time management, teamwork and communication

Had the opportunity to lead teams in game development projects, scientific research and class leadership, which helped me strengthen my skills in time management, teamwork and effective communication.