LE PHUOC SANG
AI/ML Engineer

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SUMMARY

Final-year Computer Science student (GPA: 3.46/4.0) passionate about Machine Learning, Computer Vision, and NLP (LLMs). Experienced in designing and deploying end-to-end AI systems, including speaker recognition, automated exam grading, and real-time food recognition applications. Skilled in Python, PyTorch, TensorFlow, and Flask. Seeking opportunities as an AI/ML Engineer or Data Scientist to apply research-driven approaches to real-world challenges.

EDUCATION

Can Tho University of Technology   Can Tho, VietNam
Computer Science; GPA: 3.46 / 4.0   Aug 2021 – Dec 2025

SKILLS

Programming Languages: Python (for Data Science, ML)

ML/DL Frameworks & Libraries: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, OpenCV, Matplotlib

Data & Visualization Tools: SQL Server, Microsoft Excel, Data Cleaning & Visualization

Web Development & Deployment: Flask, FastAPI, Next.js, TypeScript, Vercel, CI/CD & DevOps basics

Productivity Tools: PowerPoint, Adobe Photoshop

Platforms / IDEs: PyCharm, Visual Studio Code

Soft Skills: Problem solving, Communication & Presentation, Project management (Agile), Teamwork & Collaboration, Critical thinking, Planning & Prioritization, Self-learning / Adaptability, Stakeholder communication

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EXPERIENCE

PetroVietnam Camau Fertilizer Joint Stock Company (PVCFC) | AI/IT Intern   Jun 2025 – Aug 2025
- Gained in-depth understanding of Digital Transformation concepts, ERP systems (PVCFC enterprise model), and data-driven decision-making approaches.
- Explored and compared modern data management technologies, including Data Warehouse and Data Lake.
- Developed a chatbot using Microsoft Copilot Studio, named "Legal Agent", to assist with internal legal inquiries.
- Worked with RBI (Risk-Based Inspection) plant data: investigated database structures, reviewed contractor-built queries, and wrote optimized SQL queries to extract insights.
- Strengthened problem-solving, planning, communication, and presentation skills through daily collaboration and project tasks.

PROJECTS

Exam Grading System — *Automated multiple-choice exam grading; web app & OCR*   **Github** | **Aug 2025**
Built an end-to-end web system to auto-grade multiple-choice answer sheets: image preprocessing, OCR + vision-based answer detection, review UI, and exportable reports. Frontend: Next.js (TypeScript), Tailwind, shadcn/ui, Zustand. Backend & ML: FastAPI (Python 3.10+), OpenCV, Pandas, Ollama + qwen2.5vl:3b (Vision-Language models). Reduced teacher grading overhead and enabled batch processing + manual correction workflow.

NasAI Chatbot — *Full-stack LLM application & conversational UI using API*   **Github** | **Jul 2025**
Implemented a production-style chatbot integrating LLMs for conversational search and knowledge retrieval. Frontend + deployment demos available; includes session & conversation management, streaming responses, and rate limiting. Tech: Next.js, TypeScript, LLM integrations (see repo).

Time Series / Oil-Price & Demand Forecasting (LSTM) — *Forecasting for supply-chain / energy*   **Github** | **May 2024**
Built LSTM time-series models for demand and oil-price forecasting from historical data. Performed feature engineering, rolling window evaluation, and baseline comparisons (ARIMA). Model improvements supported better inventory planning and reduced forecasting error in experiments. Tech: Python, Pandas, NumPy, Keras/TensorFlow.

Ca Mau Fertilizer Classification - *Real-time product detection*   **Github** | **Sep 2023**
Developed a real-time detection and multi-object tracking pipeline for Ca Mau fertilizer packages using YOLOv8 + DeepSort. Collected/annotated a custom dataset for warehouse/retail scenarios and integrated the model into a live stream processing flow — achieved high classification accuracy in practice (~92% accuracy). Tech: Python, YOLOv8, DeepSort, PyTorch, OpenCV.

Consolation Prize – "Digitalization and Automation Solutions in Agro-Industry" Competition (Q4 2023, Can Tho University)

- [[Overview]]
- Task: Ca Mau Fertilizer product recognition
- Team size: 5 members

Google AI Essentials – Google (Aug 2025)

- Skills: Artificial Intelligence & Machine Learning (AI/ML), Generative AI, Prompt Engineering, Emerging Technologies, Data Security, Forecasting, Business Process Automation, Organizational Strategy
- [View Certificate]

Google Prompting Essentials – Google (Aug 2025)

- Skills: Prompt Engineering, Generative AI, Spreadsheet Software, Document Management, AI Personalization, Business Correspondence, Report Writing, Data Presentation, Critical Thinking
- [View Certificate]

Foundations of Project Management – Google (Apr 2024)

- Skills: Project Management, Software Project Management, Strategic Thinking, Leadership & Management, Waterfall Methodology, Change Management, Communications Planning, Project Scoping
- [View Certificate]

Scholarship – Can Tho University of Technology

- Awarded for academic excellence