DONG NHAT DIEM MY

Ho Chi Minh City, Vietnam

Email: [dongnhatdiemmy1032008@gmail.com](mailto:dongnhatdiemmy1032008@gmail.com) | Phone: +(84) 00 000 000

# EDUCATION

**Tran Phu High School** HCMC, Vietnam

11th Grade GPA: 8.6/10 Aug 2023 - Present

10th Grade GPA: 8.7/10

* Activities:
  + Participated in STEM-focused group projects, leading technical planning and task coordination.
  + Selected for the school’s English Gifted Team to prepare for the 2026 city-level academic competition.

# EXTRACURRICULAR ACTIVITIES

## Samsung Innovation Campus – Big Data Course

*Participant* Jun 2025 – Present

* Enrolled in instructor-led Big Data curriculum covering Linux, Docker, VirtualBox, Hadoop ecosystem (HDFS, MapReduce), Apache Spark, and data processing tools.
* Mentored by industry professionals, preparing a capstone project to earn Samsung certification.
* Strengthening technical foundations in large-scale distributed data systems and environment configuration.

## AIESEC – Wave Vietnam Project

*Student Ambassador* Aug 2024 – Jan 2025

* Promoted leadership and SDG-focused initiatives to high school communities.
* Trained in logistics, sales, operations, and visual design; provided weekly updates on performance and goal establishment during cross-functional meetings.
* Coordinated team-wide brainstorming and communication flow.
* Awarded “Best Ambassador” for outstanding coordination and commitment.

## VORC 2024 – Vietnam Open Robotics Challenge

*Participant* Jun 2024 – Jul 2024

* Gained foundational experience in robotics through project-based challenges.
* Acquired basic skills in AutoCAD and hands-on robotics engineering.
* Practiced team management and technical planning under competition pressure.

## Tran Phu AI Club

*Member* Dec 2023 – May 2024

* Studied fundamental machine learning models (Decision Trees, KNN, K-Means) using Scikit-learn.
* Collaborated on small-scale projects under guidance of university-level mentors.
* Developed a newfound interest in AI to solve social challenges.

## The Classofus Project

*Volunteer Designer* Aug 2023 – Jan 2024

* Designed multilingual media (Chinese, Spanish, French) for youth-focused education content.
* Applied Adobe tools and layout strategies to improve digital engagement.
* Attended weekly French sessions to broaden linguistic and cultural perspectives.

# PROJECTS

## Real-Time Motorcycle Helmet Violation Detection Using YOLOv8 HCMC, Vietnam

*Advisor: Ms. Nguyen Thi Tha (Physics Department)* May 2024 – Feb 2025

Team Size: 2

* Conducted a supervised research project applying YOLOv8 in computer vision to identify motorcycle riders violating helmet laws.
* Built a real-time object detection system with a custom-labeled dataset with over 6,000 images, using Python, OpenC V, and PyTorch. Applied Region of Interest (ROI) filtering to reduce noise and non-target detections.
* Evaluated model performance using precision, recall, and F1 score distribution across validation/test sets. Analyzed prediction behavior through false positive/negative cases and multi-condition testing.
* Documented findings in a formal research report following structured methodology (hypothesis, literature review, experimental design, results, discussion).
* Achieved 94.7% precision and 96.1% recall, project then submitted to the school science competition and awarded 2nd runner-up.

## ScamRadar: A Hybrid System for Scam Detection in Vietnamese Text HCMC, Vietnam

*Advisor: Dr. Le Duy Tan, Engineer Pham Duc Dat & Do Anh Kiet* Aug 2025 – Sep 2025

Team Size: 4 (Team Leader)

* Led a supervised project on detecting scam-related Vietnamese SMS using hybrid approaches combining machine learning and rule-based techniques.
* Conducted a literature review of existing text classification and fraud detection methods to establish the project’s research foundation.
* Designed and evaluated six machine learning models (Naive Bayes, Logistic Regression, Random Forest, Decision Tree, XGBoost, SVM) with SVM selected as the optimal model.
* Integrated rule-based detection modules (regex indicators for URLs, phone numbers, monetary patterns, and brand impersonation) with ML predictions to reduce misclassification.
* Built a web-based demo using Gradio and deployed on Hugging Face Spaces for interactive testing.
* Coordinated all team activities, set research direction, and oversaw dataset labeling, experimentation, and reporting.
* Achieved SVM performance: Accuracy 0.93, Precision 0.94, Recall 0.92, F1-Score 0.93.

# HONORS & AWARDS

## Wave Vietnam Project – Honored as the Best Ambassador Jan 2025

*Recognized for outstanding engagement and leadership in youth development initiatives.*

## Tran Phu High School – 2nd Runner-Up in Science Research Competition Oct 2024

*For research on real-time motorcycle helmet detection using YOLOv8.*

## Immerse Education Essay Competition – 10% Scholarship Oct 2023

*Awarded for essay on “Computer Science in Solving Refugee Issues”.*

# SKILLS

* Programming: Python (project-based), OpenCV, Roboflow, Scikit-learn
* Big Data: Hadoop (HDFS, MapReduce), Apache Spark, Docker, VirtualBox, Linux command-line
* Research: Data annotation, data evaluation, academic writing
* Software: AutoCAD (basic), Canva (intermediate), Adobe Illustrator (basic), MS Office
* Soft skills: Scientific reading, teamwork, cross-cultural communication

# ACADEMIC INTERESTS

* Artificial Intelligence & Machine Learning: Interested in applying AI to tackle real-world challenges in safety, education, and health.
* Data Science & Research Methodology: Passionate about extracting insights through data collection, pattern analysis, and evidence-based thinking.
* Psychology & Philosophy: Fascinated by how human thought systems evolve, and how ethical frameworks shape scientific inquiry.

# LANGUAGES

* Vietnamese – Native
* English – Professional working proficiency
* Spanish – Elementary proficiency

# REFERENCES

Available upon request.