

Nguyễn Huỳnh Đăng Nhựt

Artificial Intelligence Undergraduate
Aspiring AI Research Engineer

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PROJECTS & RESEARCH

- 2023
- Independent Science & Engineering Project*
Concentrated Solar Power System
- Developed a solar-energy concept combining optics, thermodynamics, control logic, and mechanical fabrication.
 - Iterated from a physical prototype toward AI-assisted solar tracking; earned First Prize at the 2023 Provincial ViSEF and Second Prize at Provincial VIFOTEC.

- 2024
- Independent Machine Learning Project*
Neural Network from Scratch
- Implemented forward propagation, loss computation, gradient calculation, and backpropagation from mathematical first principles without ML frameworks.
 - Used the project to study how architecture, optimization, and numerical choices shape learning behavior.

- 2025 – PRESENT
- CodliRo*
Focumia - Focus & Productivity Platform
- Built a focus, task, and streak system around practical deep-work and self-study workflows.
 - Translated personal study needs into product requirements, interface decisions, and iterative software releases.

- 2025
- Open-source AI Project*
PromptTEA
- Created a framework for systematic prompt design, testing, feedback loops, and reusable AI-assisted learning workflows.
 - Explored NLP and machine-learning methods for improving prompt quality and consistency.

- 2024
- Computer Vision Study*
MNIST Model Training
- Trained and evaluated digit classifiers while examining the relationship among architecture, optimization, and generalization.

LEADERSHIP & COMMUNITY

- 2023 – PRESENT
- CodliRo*
Founder & Project Lead
- Lead student-built software and AI projects; organize ideas into experiments, prototypes, documentation, and public releases.

- 2021 – 2023
- Ba Ria-Vung Tau Provincial Children's Council*
Vice President
- Represented students in provincial youth dialogues and contributed to community initiatives and child-focused research.

INTERESTS

- ACADEMIC
- Mathematics, physics, efficient AI systems, scientific discovery
- WRITING
- Technical articles, reflective essays, personal blogs
- SPORTS
- Long-distance running

EDUCATION

- 2026 – Present
- B.Sc. in Artificial Intelligence**
University of Information Technology, VNU-HCM
- 2023 – 2026
- Nguyễn Khuyển Secondary & High School**
Grade 12 GPA: **9.29/10**; Math 9.5, Physics 9.5, Chemistry 9.3

TECHNICAL SKILLS

- PROGRAMMING
- Python, C++, JavaScript, Java
- AI / DATA
- PyTorch, NumPy, pandas, scikit-learn, neural networks, model evaluation
- DEVELOPMENT
- Git, GitHub, Linux, Docker, LaTeX, VS Code, Streamlit
- METHODS
- Data structures, OOP, computational modeling, data analysis, experimental design
- AI TOOLS
- LLM-assisted research, prompt engineering, literature synthesis, workflow automation

SELECTED HONORS

- 2026
- Second Prize**, City-Level Academic Excellence Competition - Physics
- 2024
- Encouragement Prize, 24/7 Olympic - Physics
- 2023
- First Prize**, Provincial Vietnam Science & Engineering Fair (ViSEF)
- 2023
- Second Prize**, Provincial VIFOTEC Competition
- 2023
- Encouragement Prize, 24/7 Olympic - Physics
- 2022
- Third Prize**, Provincial ViSEF; Encouragement Prize, Provincial VIFOTEC
- 2019
- National Delegate, 6th National Children's Forum of Vietnam

RESEARCH INTERESTS

- AI SYSTEMS
- Efficient LLMs, parameter-efficient learning, neural network architecture, training optimization
- SCIENTIFIC AI
- Computational modeling, AI-assisted discovery, physics-informed problem solving
- HUMAN-CENTERED
- Knowledge systems, productivity tools, learning technology, decision support

LANGUAGES

- VIETNAMESE
- Native
- CHINESE
- Learning
- ENGLISH
- IELTS 6.0