

VU NGOC DUONG

Data Science Student

Hanoi, Vietnam

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I am a Data Science student passionate about applying AI and blockchain to build transparent and data-driven financial solutions. My research focuses on fraud detection in Ethereum using **BERT4ETH** and **GCN**-based architectures. Beyond academics, I won the **Biztech Hackathon 2025** with an AI app for the visually impaired and mentor students in the **Fulbright STEM Program**.

EDUCATION

BSc Candidate in Data Science in Economics and Business Sep 2023 – May 2027 (Expected)

National Economics University Vietnam

- Relevant Coursework: Probability, Statistics, Machine Learning, and Computing Tools
- GPA: 3.67/4.0; achieved **4.0/4.0** in two consecutive semesters (Fall 2023 and Spring 2024)
- Recipient of the **Academic Encouragement Scholarship** for outstanding academic performance (2023)

High School Diploma – Social Sciences Gifted Program Sep 2016 – May 2023

Chu Van An National High School for the Gifted Vietnam

RESEARCH EXPERIENCE

Research Intern – Blockchain-based Fraud Detection Sep 2024 – Present

Business AI Lab, National Economics University Vietnam

- Reproduced and analyzed state-of-the-art models for fraud detection on the Ethereum blockchain, including **BERT4ETH**, **Dynamic Feature Fusion**, and **ZipZap**.
- Currently developing a **Language Model + Graph Model** pipeline combined with **Temporal Analysis** for improved **clustering performance**, achieving an **F1-score** of **94%**, 2% higher than the **SOTA** (92%) reported in June 2025.
- Supervised by Dr. Luong Van Thien.

LEADERSHIP & ACTIVITIES

Winner – Biztech Hackathon 2025: A.ignite Jan – Mar 2025

Institute of International Training & Faculty of Data Science & AI, NEU Vietnam

- Developed **SUPERVISION**, an AI-powered mobile app assisting visually impaired users in navigation.
- Integrated **YOLOv11 Nano** for real-time obstacle detection in low-resource environments.

Mentor – Fulbright STEM Mentorship Program Feb 2025 – Present

U.S. Embassy Hanoi Vietnam

- Mentored **3 undergraduate STEM students** through bi-weekly 1:1 sessions on academic and career planning.
- Provided guidance on leadership, scholarship applications, and professional development.

Media Ambassador – Future Business Analyst Competition July 2025 – Nov 2025

RMIT University Vietnam Vietnam

- Represented the competition in outreach and promotional activities, enhancing visibility and engagement.

- Collaborated with organizers to create content, manage communications, and foster a community of aspiring analysts.

Top 15 Finalist – Future Business Analyst Competition*RMIT University Vietnam*

Sep – Oct 2024

Vietnam

- Led a cross-cultural team of 5 in a global project on social impact and youth-driven innovation across Southeast Asia.
- Presented strategic solutions to a judging panel of industry professionals and academic advisors.

ADDITIONAL INFORMATION

Technical Skills

Programming: Python, C, C++

Frameworks: TensorFlow, PyTorch

Domains: NLP, Fraud Detection,

Policy

Tools: Jupyter, Google Colab, Git

Languages

Vietnamese (Native)

English – IELTS 7.0 overall

SAT: **1410/1600****Interests**

Playing Football

Photography

Travelling