

CAO HOAI YEN VY

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Education

University of Science

Computer Science & Artificial Intelligence

2021 - 2025

8.6/10 CGPA

Projects

BiCore (Thesis) — Multimodal Knowledge Graph Completion *June 2024 - 2025*

- Proposed a curvature-aware bicomplex embedding framework for completing multimodal knowledge graphs.
- Applied complex-valued representations, fusion strategies, and manifold learning for structured reasoning.
- Completed under academic supervision, demonstrating the ability to conduct independent research, master technical literature, and implement advanced AI systems.

WinX — Vietnam Datathon 2023 *Dec 2023*

- Collaborated with a team to develop a data-driven application that enhanced real-time retail advertising strategies.
- Analyzed customer behavior using CCTV data to uncover actionable patterns and insights.

Hate Speech Detection — NLP + Transformer-based Model *June 2023*

- Built a classification model using the HateXplain dataset to detect hate, offensive, and neutral language.
- Fine-tuned a Transformer-based architecture to enhance performance in multi-label text classification.

FoodFeast — AI-Powered Mobile App for Recipe Recommendation *Dec 2023*

- Led the end-to-end project lifecycle, from ideation and coordination to deployment.
- Directed UX design and front-end development using Flutter and Supabase to ensure seamless user interaction.
- Built an AI-driven recommendation engine based on user preferences and dynamic questioning.
- Integrated recipe categorization, ranking logic, and social sharing features for personalized experiences.

Technical Skills

Languages: Python, Java, C++, JavaScript

Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras

Machine Learning & AI: Deep Learning, LLMs, GANs, Diffusion Models

Domains: NLP, Computer Vision, Multimodal Learning

Data Analysis and Visualization: OpenCV, Pandas, NumPy, Matplotlib, Seaborn

Databases: SQL, MongoDB

Big Data and Databases: Hadoop, Spark

Other Skills: Jupyter, Git, Figma, Agile collaboration

Honours and Awards

GeoComply Hope Scholarship Opportunity for Female Students

Apr 2024

- Awarded for outstanding academic achievement and extracurricular engagement in Information Technology.

Dean's List - Semester 1 and Semester 3

Dec 2022, April 2024

- Recognized for consistent top-tier academic performance and active participation in university activities.

Competitions and Hackathons

- **Top 24 – Vietnam Datathon 2024:** Developed a data-driven application to optimize retail strategies and increase in-store sales.
- **TikTok TechJam 2024:** Built a generative AI-powered tool for content creators.
- **SheCodes Hackathon 2023:** Designed a mentorship platform to foster meaningful connections.
- **Code Like a Girl 2023:** Created an app tackling real-world environmental challenges.