

CAO HOAI YEN VY

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Education

University of Science

Computer Science & Artificial Intelligence

2021 - 2025

GPA: 8.6/10

Projects

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

- Team of 2; co-developed the model and experiments collaboratively.
- Proposed a curvature-aware bicomplex embedding framework for multimodal knowledge graph completion.
- Designed the architecture, implemented training and evaluation using PyTorch and Python.
- Focused on Riemannian fusion strategies and representation analysis.
- **Tech:** PyTorch, NumPy, Matplotlib, Jupyter, Git

WinX — Vietnam Datathon 2023 *Dec 2023*

- Team of 5; contributed to trend analysis, insight interpretation, and solution ideation.
- Collaborated in designing user flows and product framing to support AI modeling team.
- Helped deliver a retail analytics tool leveraging real-time CCTV data for in-store behavior insights.
- **Tech:** Python (Pandas), Figma, PowerPoint, Matplotlib

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

- Team of 2; responsible for model development, fine-tuning, and evaluation.
- Fine-tuned a BERT-based model on the HateXplain dataset for multi-label classification.
- Improved performance with preprocessing, loss tuning, and regularization techniques.
- **Tech:** Hugging Face Transformers, PyTorch, Scikit-learn, Python

FoodFeast — AI Mobile App for Recipe Recommendations *Dec 2023*

- Led a team of 5 through product ideation, UX design, and development cycle.
- Built the front-end using Flutter and integrated backend using Supabase.
- Implemented basic recommendation logic based on dynamic user filters and preferences.
- Project achieved **highest score in final evaluation** for quality, documentation, and operational flow.
- **Tech:** Flutter, Dart, Supabase, Figma, Firebase, Python, Git

Technical Skills

Languages: Python, Java, C++, JavaScript

Frameworks: TensorFlow, PyTorch, Keras, Scikit-learn

Libraries: NumPy, Pandas, OpenCV, Matplotlib

ML Topics: Deep Learning, Transformers, GANs

Domains: NLP, Computer Vision

Data: Hadoop, Spark, SQL, MongoDB

Tools: Git, Figma, Jupyter, Agile

English: Strong comprehension and communication; comfortable in technical discussions (CEFR B2)

Honours and Awards

GeoComply Hope Scholarship

Awarded for excellence in IT academics and extracurriculars

Apr 2024

Dean's List (Sem 1 and 3)

Recognized for consistent academic excellence

Dec 2022, Apr 2024

Competitions and Hackathons

- **Vietnam Datathon 2024 (Top 24):** Built a retail optimization solution using CCTV analytics.
- **TikTok TechJam 2024:** Developed a generative AI tool for social media creators.
- **SheCodes Hackathon 2023:** Designed a mentorship platform to support women in tech.
- **Code Like a Girl 2023:** Created an app addressing environmental awareness.