Khang Nguyen

3rd-year student in Data Science

- HUTECH University
- Ho Chi Minh City, Viet Nam

Contact

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Accomplishments /Certifications

- The third prize at the 2023 *Vietnam Mathematical Olympiad* (Subject: Linear Algebra)
- The third prize at the 2024 *Vietnam Mathematical Olympiad* (Subject: Linear Algebra)
- Data Scientist Professional with Pytho Certification, *DataCamp*, 2023
- Convolutional Neural Network Certification, *DeepLearning.AI*, 2023

Biography

I am a third-year Data Science student at HUTECH University, Ho Chi Minh City, with a strong foundation in mathematics and statistics. My passion lies in applying AI to healthcare, particularly through the study of Optimal Transport Theory and Iterative Optimization Algorithms in Deep Learning.
Driven by a commitment to innovation and interdisciplinary collaboration, I aim to contribute to the development of AI-driven solutions that enhance patient care and medical research. My goal is to make a meaningful impact by leveraging my skills in data science and AI to improve healthcare outcomes.

Education

Mathematics | GPA 9.0 — **2018 - 2021**
Ly Tu Trong Highschool for the Gifted, Can Tho City

Activities and societies: A member of the 2020 Vietnam Mathematical Olympiad Selection Team

Data Science & AI | 2025 Graduation | GPA 3.64 — **2021 - today**
Department of Information Technology
HUTECH University

Activities and societies: Member of the 2023 & 2024 Vietnam Mathematical Olympiad Selection Team (a prestigious competition for university students that challenges advanced mathematical problem-solving skills).

Projects

1. **PREDICTIVE MODELING of HOTEL REVIEW SCORES in Ho Chi Minh City A Machine Learning Approach Utilizing Booking.com Data**

   The primary objective of this project is to develop an accurate and flexible prediction system based on Ensemble Learning by combining multiple machine learning models. The research focuses on optimizing the integration process of these models to leverage the strengths of each method while minimizing the limitations of individual models.

2. **FINANCIAL SENTIMENT ANALYSIS on Vietnamese Stock Market Headlines**

   Financial news headlines offer valuable NLP data for predicting stock performance through sentiment analysis. In Finance and Banking, language serves as a key tool for analysis, capturing emotional nuances that influence investor behavior and market dynamics. The project focuses on understanding how the subtleties of financial language impact different stakeholders, such as investors and analysts, and how these nuances affect investment decisions.

3. **Enhancing Drug-drug Interaction Prediction via DGNN-DDI & EmerGNN**

   This project develops a Dual Graph Neural Network (DGNN) framework to predict drug-drug interactions (DDIs) by leveraging deep learning. It combines drug-level and substructure-level modeling to capture complex relationships, improving prediction accuracy over traditional methods. The goal is to enhance drug safety and patient care through more reliable DDI predictions.

Ho Chi Minh City, 11th November 2024

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