Huynh Doan Minh Ngoc

Data Engineer Junior

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Education

- **University of Science, Vietnam National University in Ho Chi Minh city**
  Bachelor in Computer Science, High-Quality Program *2017 – 2021*
  GPA: **3.82/4.00** (Valedictorian of the High-Quality Program)

  Courses: Data Mining, Machine Learning, Pattern Recognition, Big Data, Data Visualization, Data Science, Intelligent Data Analysist, Graph Mining...

Publications

- Le, T., **Huynh, N.**, Le, B. (2021). "RotatHS: Rotation Embedding on the Hyperplane with Soft Constraints for Link Prediction on Knowledge Graph". In: Nguyen, N.T., Iliadis, L., Maglogiannis, I., Trawiński, B. (eds) Computational Collective Intelligence. ICCCI 2021. Lecture Notes in Computer Science(), vol 12876. Springer, Cham. https://doi.org/10.1007/978-3-030-88081-1_3
- Le, T., **Huynh, N.**, Le, B. (2021). "Link Prediction on Knowledge Graph by Rotation Embedding on the Hyperplane in the Complex Vector Space". In: Farkaš, I., Masulli, P., Otte, S., Wermter, S. (eds) Artificial Neural Networks and Machine Learning – ICANN 2021. ICANN 2021. Lecture Notes in Computer Science(), vol 12893. Springer, Cham. https://doi.org/10.1007/978-3-030-86365-4_14 Github

Projects

- **Link Prediction on the Knowledge Graph based on Rotation Embedding method (Graduated Thesis)**: Read papers and report the Geometric approach in the Link Prediction problem; Give the proposed model (RotatHS) to improving the performance; Code and conduct some experiments with the RotatHS model; Visualize the results and some comparisons; Write thesis using Latex and preparing slides
  Programming language: Python
- **Visualize and analyse the situation of COVID-19 in Vietnam**: Crawl Covid-19 data from Worldometer and Ministry of Health; Visualize data using the Tableau application; Write report and preparing slides; Apply the ARIMA and OLS models to predict the cases in the following day using *sklearn* and *statsmodels* libraries
  Programming language: Python
- **Credit card fraud detection**: Visualize data using the *matplotlib* library; Apply some models to classify the fraudulent transactions; Write report and preparing slides
  Programming language: Python
- **Student management application**: Design and code the UI; Create database; Code and Test the features
  Programming languages: C# (for UI) and SQL (for database)

Activities

- **SheCodes Hackathon in HCMC** Jul 18th - 19th, 2020
  First Place with VGO team
- **30th International Conference on Artificial Neural Networks 2021** Sep 18th - 17th, 2021
  Participate as an author of accepted paper
  Link Prediction on Knowledge Graph by Rotation Embedding on the Hyperplane in the Complex Vector Space
- **13th International Conference on Computational Collective Intelligence** Sep 28th - Oct 1st, 2021
  Participate as an author of accepted paper
  RotatHS: Rotation Embedding on the Hyperplane with Soft Constraints for Link Prediction on Knowledge Graph
- **Female Developer Innovation Tournament 2021** Dec 01st, 2021 - Feb 26th, 202
  Champion and Best Innovation Idea with Lumière team *The detailed idea*

Honor and Awards

- **Semester Scholarship** 2017 - 2020
  1st, 2nd, 3rd Semester
- **Semester Scholarship** 2020 - 2021
  3rd Semester
- **Scholarship of the academic year** 2017 - 2020
  Full Scholarship for top 1
- **Gold table of achievements 2019 - 2020** 2019 - 2020
  Top 5 best yearly GPA
- **Excellent thesis topic** Nov 26th, 2021
  The Science and Technology Research Student Award 2021
- **Graduated as Valedictorian of the High-Quality Program 2017-2021** Apr 12th, 2022
  University of Science, VNU-HCMC
- **Graduated with Excellent degree classification for the academic year 2017-2021** Apr 14th, 2022
  Vietnam National University, Ho Chi Minh City

Skills

- **Languages**: English (IELTS: 5.5)
- **Computer**: Latex
- **Programming Language**: Python, C++
- **Used to use**: C#, SQL, Java, Cuda C/C++

Soft Skills

- Critical thinker with excellent problem solving skills
- Adapt quickly to new environments
- Good interpersonal and communication skills

Objective

- Working and dedicating in a professional environment, respect each other, friendly,...
- Programming skills are trained in 4 years, capable of management (with the completion of a good team leader in most university projects) or jobs requiring a high level of technical expertise
- Research skills are trained during the course of the thesis (with 2 accepted papers in 2 international conferences)