



Hoàng Như Vương

Skill Overview

Natural Language Processing

Recommendation Systems

Data Analysis:

- Web scraping
- Data visualization, Data storytelling

Programming & Tools:

- Python & R
- T-SQL, MySQL, PostgreSQL
- HTML, CSS, Bootstrap, Sass, Django
- D3.js, jQuery
- PowerBI, Tableau
- Excel, Google Sheets

Discrete Event Simulation & Tkinter

Academic Knowledge:

- Statistics, Linear Algebra, Calculus
- Data Structures & Algorithms
- Machine Learning

Education

Data Science and Business Analytics

Undergraduate | 2021-2025

- at DaNang University of Economics
- GPA: **3.76 / 4**
(3.86, 3.22, 3.94, 3.83, 4.0, 3.69)

Le Quy Don Highschool for the gifted

Courses & Certificates

- Participated in "Khóa bồi dưỡng giảng viên Khu vực miền Trung - Tây Nguyên" on "Thống kê hiện đại với phần mềm R", hosted by VIASM
- **Scholarships** for outstanding **academic performance**
- Machine Learning at college: 9.8/10
- Advanced SQL HackerRank certificate (Sep 12, 2022)
- "Django - The Practical Guide" Course

Languages

English - Fluent: 900 TOEIC

Contact

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Information mentioned can be found [here](#).

“As an enthusiastic learner in the realms of data analysis and data science, I'm driven by a curiosity to extract meaningful insights from complex datasets and develop innovative solutions using statistical and machine learning approaches. While I'm continuously expanding my skills, my passion for turning data into actionable knowledge, coupled with a strong work ethic and adaptability, motivates me to tackle diverse analytical challenges and contribute effectively to data-driven decision-making processes.”



Internships

Data Analyst intern at The SHEA Feb-May 2024

- Implemented web scraping pipelines using Selenium and BeautifulSoup for collecting competitors' data from their websites and stores on Shopee.
- Leveraged statistics to derive insights and identify emerging patterns across fashion categories, focusing on direct competitors.
- Constructed visual dashboards to present analysis findings. Performed data storytelling by presenting analysis results, providing data-driven strategic business recommendations.
- [Example Dashboard](#) | [A Report Snippet](#)



Projects

Job Application Recommendation System | [Report](#)

- Web scraping with Selenium and BeautifulSoup from job portals
- Employs NLP techniques & libraries like Underthesea, NLTK, regex, VnCoreNLP, TF-IDF keyphrase extraction, KeyBERT, and [maths](#) to preprocess and extract meaningful phrases from job descriptions.
- Vectorizes text data using TF-IDF in comparison to Word2Vec
- Implements cosine similarity to match users with suitable job recommendations
- Leverages T-SQL for replicating the preprocessing pipeline
- Developing a [crawling system](#) to reduce errors
- Visualizes job market trends with Python Matplotlib & Seaborn

Parking Optimization with Discrete Event Simulation | [Youtube](#)

- Developed a [SimPy-based](#) simulation model to optimize university parking operations. Considered realistic factors like gate types, failure probabilities, and peak hour traffic patterns. Evaluated scenarios using event scheduling and statistical distributions. Recommend optimal gate quantities and staffing levels.
- Built a Tkinter interface to visualize vehicle flows.

Automated Product Review Analysis Pipeline

- Web scraping from e-commerce, Facebook, and YouTube
- Automated preprocessing using NLP techniques
- Integrated PhoBERT, and VnCoreNLP for sentiment analysis
- Applied [math](#) to extract product features from reviews

EDA and Storytelling Projects:

- Cinema Data [Dashboard](#) [Python Notebook](#)
- Sales Data Analysis using PowerBI, Tableau, Python Matplotlib & Seaborn [Dashboard](#) [Python Notebook](#) [Report](#)
- Sales Data Analysis using [D3.js](#) (GitHub)

[Web Front-end Development using HTML, CSS, Bootstrap, Sass](#)



Soft skills

Communication & Public Speaking

- 9th Best Speaker at National Novice Debating Championship 2019
- Semi-finalist at Truong Teen VTV7 2020

Leadership & Project Management

- Managed [@hoichamproject](#) with 6400 followers, aiming to inform Vietnamese youth