KHOA NGUYEN TRONG DANG

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CAREER OBJECTIVE

A highly motivated IT person with a solid foundation in **software development** and a strong interest in **Artificial intelligence**. Eager to contribute to a dynamic technological environment by applying problem-solving skills and a quick learning ability to build innovative, robust solutions, driving the development of impactful tech products.

EDUCATION

Ho Chi Minh City University of Industry and Trade   08/2021 - 04/2025

Bachelor of Information Technology | **GPA: 3.23/4**

SKILLS

Programming: Python, Java, SQL, NoSQL

Frameworks & Library: Pytorch, pandas, numpy, scikit-learn, FastAPI

Databases: MySQL, MongoDB

Tools & Platforms: Docker, Git, Linux

Others: Machine Learning Algorithms, Computer Vision, Research skills, Fine-tuning, Problem-solving

Languages: Vietnamese (Native) | English: **TOEIC(LR) 720, IELTS 6.0**

My certifications: khoa15.github.io/certifications.html

EXPERIENCE

Backend Intern   09/2024 - 12/2024

EdunetJSC

- **Researching** technical documentation from the open-source Frigate codebase, implement the detection module on the application.
- **Studying** and adjusting configurations resulted in a **2% improvement** object detection accuracy in the production environment.
- **Researching** IoT documentation, assist in maintaining water quality monitoring stations which are IoT devices.

AWARDS AND HONORS

- Participating in Euréka 2023.   12/2023
- Encouragement Award for "Emergent products and topics in the information technology field", HUIT.   7/2023
- First prize in "Young coder's Competition: Finding the Best and Brightest", HUIT.   6/2023
- Third prize in "Science Fair".   11/2020

PROJECTS

Sentiment Classification

 github.com/Khoa15/deep-learning/blob/main/src/models/rnn.ipynb

- Built a basic RNN to classify sentiment (positive, neutral, negative) on financial news using Kaggle data.
- Preprocessed text (lowercase, punctuation removal, stopword elimination, stemming) and mapped words to indices.
- Assessed RNN's strengths in short-term sequence modeling and noted limitations with longer texts.

`python` `pandas` `numpy` `scikit-learn`

Exci

 github.com/Khoa15/exci.git

- A simple app utilized Ollama to support users learning english. Using spaced repetition for personalized learning, create your own vocabulary collections. Search and save vocabulary through API dictionary.
- Prompting Ollama models to enhance vocabulary learning experience. One for AI chatbot, one for vocabulary search and save. Enhancing the user experience with a Flutter application.
- Developed a backend using ASP .NET to manage user data, vocabulary collections. Using Ollama system to handle AI chatbot and vocabulary search. Statistics and report in winform .NET application for admin.

  Flutter   ASP .NET   Winform .NET   Ollama   Python

Age Classification

 Khoa15/huit-ai.git

- Responsible for developing and training Convolutional Neural Networks (CNNs) to classify images into 12 distinct classes using the UTKFace dataset.
- Build server python with Flask which is recieved request from client to classify age.
- Config client for request and receive response.

  Python   React native   Tensorflow   Flask

Note-Taking

 github.com/Khoa15/dury.git

- Developed a Spring Boot backend and REST API to manage notes, categories, and secure user authentication with full CRUD functionality.
- Integrated a Flask microservice for Optical Character Recognition (OCR), converting images to text using the Tesseract library.
- Designed and enhanced the Android application's UI to provide an intuitive experience for adding, updating, and deleting notes and categories.

  Spring   Mongodb   Firebase   Android (Java)   Flask

Mini game SQL Injection

 github.com/Khoa15/mini-game-sql-injection.git

- Designed and developed a game that helps us understand SQL injection in a database course. It supports multiplayer using WebSockets.

  HTML, CSS & Javascript   Bootstrap   Websocket   Expressjs   SQL Server