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NGUYEN KHANH TOAN

AI Engineer

Portfolio: [ToanNguyenKhanh](#)
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SKILLS

Languages Python, C#
Frameworks PyTorch, OpenCV, Scikit-learn, NLTK, Pandas, NumPy
Tools PyCharm, Jupyter Notebook, Linux, Docker

PERSONAL PROJECT

Tumor Image Classification - [Link project](#)

- **Overview:** A project dedicated to implementing Convolutional Neural Networks (CNN) for brain tumor image classification.
- **Responsibilities:** Managed dataset preparation, CNN architecture design, hyperparameter tuning, training, evaluation, and testing.
- **Technologies Used:** Python, PyTorch, OpenCV, Pycharm, Linux.
- **Results:** The CNN model demonstrates effective performance on both test image and video datasets, achieving high accuracy (85%) in classifying brain tumor images.

AG's News Classification - [Link project](#)

- **Overview:** The project aims to classify news articles into four main categories: "world", "sports", "business", and "Science".
- **Responsibilities:** Built text preprocessing, explored data, and conducted visualization before implementing machine learning algorithms such as Stochastic Gradient Descent (SGD), Convolutional Neural Network (CNN), and Naive Bayes.
- **Technologies Used:** Python, Keras, NLTK, scikit-learn, Jupyter Notebook.
- **Results:** Achieving high accuracy/performance (90%), ensuring generalization to unseen data, improving prediction interpretability, scalability, and reducing error rates.

Hotel Reservation - [Link project](#)

- **Overview:** The project focuses on predicting hotel reservation cancellations using machine learning techniques.
- **Responsibilities:** Managed data exploration, preprocessing, feature Engineering, model training and evaluation, hyperparameter Tuning and cross-Validation.
- **Technologies Used:** Python, scikit-learn, Jupyter Notebook.
- **Results:** Achieving high accuracy/performance (90%), identified key factors influencing reservation cancellations.

EDUCATION

Bachelor of Data Science 2021-Present

College of Technology and Design - UEH University

- CGPA: 3.4/4 - Degree Classification: Very Good

Bachelor of Financial Mathematics 2021-Present

College of Technology and Design - UEH University

- CGPA: 3.07/4 - Degree Classification: Good

CERTIFICATE/AWARD

TOEIC (Score: 825/990) 2024

Certificate in Machine Learning, Deep Learning, Coursera 2023

Bronze Medal in Physics (April 30th traditional Olympic competition) 2019

VONLUNTEER

New Student Welcome Camp Organizer Fall 2022

UEH University

Spring Volunteer Campaign Spring 2023

UEH University