**Nguyen Ba Ngoc (Nguyễn Bá Ngọc )**

**AI Developer**

 [Nguyen-Ba-Ngoc](https://www.linkedin.com/in/nbn1314/) [nbnml2002@gmail.com](mailto:nbnml2002@gmail.com) [nguyen378](https://github.com/nguyen378) [nguyen378.github.io](https://nguyen378.github.io/personal-web/)

**Summary**

Final-year Data Science and Artificial Intelligence student at Ho Chi Minh City University of Industry and Trade (HUIT) with a strong foundation in machine learning and software development. Seeking an internship position to gain practical experience and contribute to innovative AI projects. Adept at problem-solving and collaborating in team environments.

**Education**

**Ho Chi Minh City University of Industry and Trade** Ho Chi Minh City, Vietnam

*Bachelor of Data Science and AI* GPA: 3.36/4.0 Oct 2020 – Aug 2024 (Expected)

**Skills**

**Proficient:**

* **Python libraries:** NumPy, Scikit-learn, Keras, TensorFlow, Tkinter

**Familiar:**

* **Machine Learning:** Supervised and unsupervised learning models
* **Android**: Java programming
* **Database Management**: SQL Server, MongoDB, Neo4J
* **Programming languages and Scriptings:** C/C++, C#, Java, HTML/CSS

**Soft Skills**: Independent and collaborative work, strong presentation, critical thinking

**Awards received**

Achieved the “Clean code” award and consolation prize in the "Finding talents and innovative IT products in the digital age" competition at HUFI.

Received a scholarship from the school.

**Activities**

Attended data science and AI conferences or workshops.

Participated in competitions and activities about programming at school.

Member of 'Tình nguyện xanh' club: Distributed meals to underprivileged individuals, organized playgrounds for children in disadvantaged areas

Regularly donate blood to help others and support community health initiatives.

**Projects**

|  |  |  |
| --- | --- | --- |
| Coursework | Name | Traffic light optimization based on vehicle traffic density |
| Detail | Using the YOLOv10 model to classify vehicle traffic density, thereby applying a formula to calculate the time difference between routes. |
| GitHub | [nguyen378/Thesis](https://github.com/nguyen378/Thesis) |
|  | | |
| Coursework | Name | Secure Memo |
| Detail | Building face authentication functionality using Siamese Neural Network  My role: Developing the application and the facial recognition feature. |
| GitHub | [nntrivi2001/SecureMemo](https://github.com/nntrivi2001/SecureMemo.git) |
|  | | |
| Coursework | Name | Family Tree |
| Detail | The project involves building a family tree application using Java and Neo4j.  My role: Creating interfaces for adding, deleting, and editing information of family members, as well as functionalities for adding, deleting, and editing relationships among family members. |
| GitHub | [nguyen378/FamilyTree](https://github.com/nguyen378/FamilyTree) |
|  | | |
| Kaggle Competitions | Name | Digit Recognizer |
| Detail | Correctly identify digits from a dataset of tens of thousands of handwritten images(MNIST).  Using CNN for prediction, with a score: 0.98282 |
| GitHub | [nguyen378/Digit-Recognizer](https://github.com/nguyen378/Digit-Recognizer) |
|  | | |
| Kaggle Competitions | Name | House prices |
| Detail | Predict the sales price for each house.  Using ExtraTreesRegressor for prediction, with a score: 0.30938. |
| GitHub | [nguyen378/HousePrices](https://github.com/nguyen378/HousePrices) |
|  | | |
| Kaggle Competitions | Name | Titanic |
| Detail | Predicts which passengers survived the Titanic shipwreck.  Using XGBoost for prediction, with a score: 0.76555. |
| GitHub | [nguyen378/Titanic](https://github.com/nguyen378/Titanic) |
|  | | |
| Kaggle Competitions | Name | Spaceship Titanic |
| Detail | Predict which passengers are transported to an alternate dimension.  Using Random Forest for prediction, with a ranking of 550/2260. |
| GitHub | [nguyen378/SpaceshipTitanic](https://github.com/nguyen378/SpaceshipTitanic) |
|  | | |
| Coursework | Name | CringeMPOne |
| Detail | Music streaming application inspired by ZingMP3.  My role: Developing song search functionality, connecting, and storing user data on Firebase. |
| GitHub | [CringeMPOne](https://github.com/dat911zz/CringeMPOne) |
|  | | |
| Coursework | Name | Stroke disease prediction with GUI |
| Detail | Stroke disease prediction using SVM, Decision Tree, MLP with GUI.  Connect to database (SQL Server), save and show medical record of specific patient through primary key. |
| GitHub | [nguyen378/StrokePrediction](https://github.com/nguyen378/StrokePrediction) |
|  | | |
| Coursework | Name | Image Processing with GUI |
| Detail | Sharpen, blurred, segmentation, boundary extraction, feature extraction image(s) by many techniques with GUI. |
| GitHub | [nguyen378/ImageProcessing](https://github.com/nguyen378/ImageProcessing) |

**Interests and Hobbies**

Technology and innovation, especially in the field of AI

Cooking delicious meals for my family

Exercising and playing badminton to maintain good health