Nguyen Ngoc Tri Vi (Nguyễn Ngọc Trí Vĩ)

Machine Learning Intern

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Summary

Final-year Data Analyst student at HCMC University of Industry and Trade (HUIT), with a passion for using AI to create innovative solutions for digital transformation in education. I enjoy collaborating with others, taking on challenges and making a positive impact in my community.

Education

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

Bachelor of Data Science and AI   GPA: 3.68/4.0   📅 Oct 2020 – Aug 2024 (Expected)

Work experience

VSTech   **Aug 2023 – Nov 2023**

AI Application Developer Intern

- Researched, applied, built, and evaluated models for character matching computations.
- Assisted in improving the model for detecting defective products in the production line.
- Evaluated and statistically analyzed the performance of the company's existing AI models.

Skills

Proficient:

- **Python programming**: Proficient in utilizing Python and its essential libraries and frameworks such as Keras, OpenCV, Tensorflow, PyTorch and more.

Familiar:

- **Machine Learning**: Knowledgeable in various concepts and experienced in working with both supervised and unsupervised machine learning models.
- **Mathematics**: familiarity with related concepts such as linear algebra, calculus, probability, and statistics.
- **Database management**: Basic knowledge and familiarity with SQL Server, Neo4J, MongoDB for database management.
- **Programming languages and Scriptings**: Familiarity with programming languages such as C/C++, C#, Java and scripts HTML/CSS for web development.

Awards received

Consolation prize in the TOFAS competition.

"Clean code" award and consolation prize in the "Finding talents and innovative IT products in the digital age" competition at HUIT.

Excellent Student Award for the academic year 2020-2021 and Outstanding Student Award for each academic year till now.

Academic Encouragement Scholarships for every semester.

Activities

Attended data science and AI conferences or workshops.

Participated in competitions and activities about programming at school.

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

Interests and Hobbies

Enjoy reading books to enhance knowledge and gain new insights.

Technology and innovation, especially in the field of AI.

Participating in sports like football, volleyball, badminton and jogging to stay healthy.

Projects

Coursework	Name	Face Verification using Siamese Neural Network
	Description	Use Kivy and KivyMD framework to build application interface. Implemented a face verification model employing a Siamese Neural Network with VGGFace as a sub-neural network. Processes cropped face images captured from the camera as input and computes the similarity score with face images stored in the database as output.
	Github	nntrivi2001/SecureMemo

Internship Project	Name	Incomplete product detection using YOLOv8
	Description	Ultilize YOLOv8 to detect incomplete product based on quantity of screws/wave washers and percent of object out of frame. The images classified as "Not good" or "incomplete" will be deleted. Summarize the number of remaining images and the number of deleted images in each folder.

Internship Project	Name	Similarity calculation model for printed characters on bottles and plastic packaging
	Description	Using the Tensorflow framework to split the data into a test set and a training set, then proceed with preprocessing, augmentation, model creation, compilation, and training to obtain embedded vectors from the images. The model takes a cropped character image as input and learns the differences between each class, producing an embedded vector of the input image as output.

Competition	Name	Digit recognizer competition - Kaggle
	Description	Digit recognizer prediction competition on Kaggle using CNN with 0.9991 score (ranked 43). Python libraries and frameworks like TensorFlow, Keras, NumPy, and Matplotlib are employed for training and evaluation. Achieving high accuracy with the competition's dataset combine with MNIST dataset.
	Github	nntrivi2001/Digit-recognizer---CNN

Competition	Name	House prices competition - Kaggle
	Description	House prices prediction competition on Kaggle using XGBoost with 0.13384 score (ranked 1166). The project predicts housing prices by employing Python libraries like Pandas, NumPy, and XGBoost for data processing and model building
	Github	nntrivi2001/House-Prices-Prediction---XGBoost

Competition	Name	Titanic competition - Kaggle
	Description	Titanic competition on Kaggle with 0.818 accuracy (ranked 227) using XGBoost and RandomForest. Employing Python libraries such as Pandas, NumPy, RandomForestClassifier, and XGBClassifier for data processing and model building, the project predicts passenger survival on the Titanic.
	Github	nntrivi2001/Titanic-Competition---RandomForest

Coursework	Name	Heart disease prediction
	Description	Utilize SVM, Naive Bayes, XGBoost, and ANN algorithms to predict heart disease. Explore diverse models in a user-friendly interface. Connect to database (SQL Server), save and show medical record of specific patient through ID.
	Github	nntrivi2001/Heart-Disease-Prediction-GUI

Coursework	Name	Image Processing
	Description	Sharpen, blur, segment, extract boundaries, and features. Explore various image processing techniques with a user-friendly GUI.
	Github	nntrivi2001/Image-Processing -GUI

Coursework	Name	Face recognition
	Description	Detect faces in photos and real-time webcam streams using a user-friendly GUI. Accurate and efficient face recognition with Dlib and OpenCV.
	Github	nntrivi2001/Face-recognition -GUI