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DINH TRAC DUC ANH

Machine Learning Engineer / Intern

Portfolio: MathtoData.com
github.com/TracDucAnh
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I'm a student currently pursuing a Bachelor's degree in Computer Science at Ho Chi Minh City University of Technology. I eagerly demand knowledge in the Machine Learning and Deep Learning field. With dedication and hard work, despite the obstacles and limitations ahead, I'll never stop learning to gain a deeper understanding of Machine Learning and AI in general, towards the goal of becoming a professional Machine Learning engineer.
I believe that both studying and working as an intern is the most effective way to apply theoretical knowledge in university to the realistic world of technology and business. In contrast, the most innovative and latest technology in the field could greatly support my academic pursuit.

Skills

Programming Languages	Python, C, C++, Javascript
Web Technology	HTML, CSS. Framework: Bootstrap
Interested Areas	Computer Vision, Machine Learning, Deep Learning, Reinforcement Learning, Generative Artificial Intelligent
Miscellaneous	Git, LaTeX
Communication	English (fluent speaker), Vietnamese (Native speaker)

Technical Experience

TUBERCULOSIS BACTERIA DETECTION **1/2024 — 3/2024**
HCMUT *Di An, Viet Nam*

- This project was conducted to implement an effective algorithm to detect TB bacteria from the patient's sputum samples.
- The previous approach of this project utilizes the Tensorflow library to train the CNN model to classify whether or not the given region from the image is TB or the environment around them. The training process produces a high accuracy at 93% but hardly recognizes TB in the whole sputum sample.
- Using YOLOv8 paved the way to detect TB bacteria more effectively. The model produced by YOLOv8 fits perfectly with the TB detection task.
- More information: This github repository.
- **Technology used:** YOLOv8, Tensorflow, Convolutional Neuron Network, PIL, Scikit-learn, Roboflow.

PNEUMONIA CLASSIFICATION **2/2024 — 3/2024**
HCMUT *Di An, Viet Nam*

- This project aimed to apply the CNN model to classify pneumonia disease effectively from the given chest X-ray image.
- The model was trained on medium chest X-ray images. The result was potential, throughout the training process with 10 epochs, the model reached 93% accuracy on the training set and reached 100% accuracy on the test set.
- However, the dataset used to train the model was relatively small and was not general enough to use in the medical diagnosis field.
- More information: this github repository
- **Technology used:** Tensorflow, Convolutional Neuron Network, Keras, CV2.

DIABETIC PREDICTION **11/2023 — 1/2024**
HCMUT *Di An, Viet Nam*

- This is a research project on Applying Logistic Regression to predict the result of Diabetes diagnosis based on the patient's medical data.
- The project was conducted to implement a Logistic Regression model from scratch to effectively predict Diabetes. The model was trained on a medium dataset of the Pima Indian Diabetes Database. Throughout the training process, the model reached 80% accuracy.
- The source code of the project is stored in this github repository.
- **Technology used:** Logistic Regression, scikit-learn, Pandas, Exploratory Data Analysis (EDA) ydata_profilling.

Education

Bachelor of Computer Science, *Faculty of Computer Science and Engineering, HCMUT* 8/2023 — present
Certificate of *, CS50x Introduction to Computer Science, Harvard online* 5/2023 — present
Certificate of *, Supervised Machine Learning: Regression and Classification, Standford Online & Deeplearning.AI* 1/2024 — present
Certification of, *Machine Learning with Python, provided by IBM* 1/2024 — present
Certificate of, *Test of English for International Communication (TOEIC LR: 860/990)* 10/2023-10/2025

Activities

Working as research assistant at URA, HCMUT VNPT lab 10/2023 — present