

Minh Trinh

AI Engineer Intern

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EXPERIENCE

- Python coding Tutor**, Freelance Mar 2023 – Mar 2024
- Guide students of varying skill levels through core Python programming concepts, including data structures, functions, and object-oriented programming, tailoring instruction to individual learning styles.
 - Design and deliver customized lesson plans, hands-on programming exercises, and data science and data analytics projects to help students develop problem-solving skills and reinforce fundamental programming knowledge.
 - Provide real-world examples and project-based learning, covering topics such as **data analysis**, **web scraping**, and **machine learning fundamentals**, to ensure a comprehensive understanding of Python applications.

PROJECTS

- Animal Species Classification Using Convolutional Neural Networks(CNN)** May - Jul 2023
Personal Project
github.com/trinhminhds/90-Different-Animals-Image-Classification
- Curated and labeled a dataset of over 10,000 animal images from **Kaggle** for balanced training.
 - Pre-processed images through **resizing**, **normalization** and **data augmentation**(rotation, flipping, and zoom adjustments), enhancing the model's ability to generalize across diverse lighting conditions and backgrounds.
 - Designed and optimized a CNN architecture using **TensorFlow** and **Keras**, leveraging transfer learning with pre-trained **ResNet** and **EfficientNetB3** models.
 - Deployed the model via a **Flask-based** web application for real-time species identification.
- Handwritten Digit Recognition System Using Support Vector Machine(SVM)** Jan - Apr 2024
Scientific Research, Faculty Information Technology, Gia Dinh University
github.com/trinhminhds/Handwritten-Digit-Recognition
- Developed a handwritten digit recognition system using the **MNIST dataset** (60,000 training and 10,000 testing images).
 - Implemented a Support Vector Machine (SVM) classifier with a **one-vs-all** strategy for digit classification.
 - Built a web interface that allows users to **draw or upload digits** and perform basic arithmetic operations (**addition**, **subtraction**, **multiplication**, **division**) on recognized digits.
 - Achieved high recognition accuracy with performance **evaluation** using metrics such as accuracy, precision, recall, and F1 score.
- AI-Generated Text Detection Using DeBERTaV3 and TensorFlow** May - Aug 2024
Personal Project
github.com/trinhminhds/LLM-Detect-AI-Generated-Text
- Constructed a text classification pipeline using **TensorFlow** and **Keras NLP** to detect AI-generated text with **DeBERTaV3**.
 - Implemented data preprocessing, tokenization, and hyperparameter tuning via **StratifiedKfold** cross-validation.
 - Trained a binary classification model (real vs. fake text) with a sigmoid activation function, incorporating learning rate scheduling and **W&B** for experiment tracking.

EDUCATION

- Bachelor of Information Technology, Big Data**, Gia Dinh University Oct 2022 – May 2025
- GPA: 3.2/4.0

SKILLS

Programming: Python, R, SQL, C/C++, Java.

Libraries & Tools: Pandas, Numpy, Matplotlib, Seaborn, Plotly, Scipy, Tkinter, Scikitlearn, TensorFlow, Keras, PyTorch, Flask, Beautiful soup, PowerBI, Tableau, GIT, Github, Linux.

Data Wrangling: Data Generation, Data Extraction, Data Cleaning, Exploratory Data Analysis, Feature Engineering, Feature Selection, Data Visualization.

Machine Learning Skills: Data Modeling, Clustering, Classification, Regression, Quantitative Analysis, Predictive Modeling, Statistical Modeling, Model Validation, Model Deployment, CNNs, RNNs, LSTM, BERT, Transformers.

Language: English basic.

COMPETITIONS

- Participated in the 2023 Scientific Research Competition organized by the IT faculty at Gia Dinh University, with the project titled “**Predicting Student Grades Using Machine Learning**”.
 - Processed historical student grade data to identify academic performance trends through data cleaning and visualization.
 - Developed predictive models to forecast graduation scores, supporting academic planning and student success strategies.
 - Recognized with a certificate for outstanding research project completion.

CERTIFICATIONS

- Coursera – IBM Data Science Specialization.
- Coursera – Linear Algebra for Machine Learning and Data Science.
- Coursera – Calculus for Machine Learning and Data Science.

PORTFOLIO

To explore more on my projects please visit: <https://trinhminhds.github.io>