Nguyen Trung Tuyen

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Summary

I am a final-year student majoring in Artificial Intelligence and Data Science, actively seeking an internship to launch my career in this field. With Python skills, I have gained hands-on experience through academic and practical projects in machine learning, deep learning, and image processing.

My expertise includes probabilistic statistics, natural language processing, and computer vision, with experience using libraries such as TensorFlow, OpenCV. Through coursework and projects, I have built and fine-tuned models for image classification, object detection, and facial landmark.

I am eager to join a dynamic, growth-oriented internship where I can further apply and enhance my technical skills in AI and data science.

Education

Thuy Loi University, Artificial Intelligence and Data Science   Oct. 2021 to Present

- GPA: 3.38/4.0 (View ↗)
- **Coursework:** Data Structures and Algorithms, Optimization, Artificial Intelligence, Machine Learning, Deep Learning, Big Data Management...

Experience

CXView.ai, Artificial Intelligence Intern   Aug. 2024 to Dec. 2024

- Researched and implemented image processing techniques including CNN, RNN, ResNet, YOLO, OpenCV, and Tracking.
- Developed applications:
    - Dog vs Cat classification using CNN and ResNet.
    - Fire detection model using YOLOv8.
    - Shelf vacancy detection model.
    - Table cleanliness detection for dining areas.

Projects

Building a movie recommendation system (Github ↗)   Apr. 2024 to May 2024

- Utilizing BeautifulSoup to scrape data about movies from the IMDB website.
- Given an input of either a user-selected movie or a description of a movie, researching and understanding the theoretical methods of content-based recommendation to suggest movies based on the input.
- Used Python, Flask, NLTK, HTML, CSS.

Using deep learning to build a water level prediction model   Oct. 2023 to Apr 2024
- Preprocessing the data before feeding it into the model.
- Building and training a Long Short Term Memory (LSTM) model combined with an Attention mechanism to forecast water levels at the Le Thuy station.
- Used Python, LSTM, Multi-Head Attention.

Building a water infiltration level prediction model at Ngan Truoi dam   Oct. 2022 to Mar.2023
- Training a Long Short Term Memory (LSTM) model.
- Experimenting and evaluating the model.
- Used Python, LSTM.

Additional Experience And Awards

Third Prize - Department-level Scientific Research Student: Using deep learning to build a water level prediction model.

Technologies

Languages: Python
Libraries: Scikit-learn, Numpy, Pandas, TensorFlow, YOLO
Software: Visual Studio, PyCharm.