Tien Phu Tran

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Profile Summary

I am a Computer Science student focusing on Artificial Intelligence, pursuing a Bachelor of Science at the University of Houston. Experienced in developing machine learning models, particularly with TensorFlow, CNNs, and LSTMs for applications such as skin cancer detection. Proficient in multiple programming languages and frameworks including Python, TensorFlow, Java, C++, SQL, and web technologies. Adept at working in collaborative team environments and delivering innovative solutions in project settings.

Education

Houston Community College, A.S. in Computer Science — August 2020 – May 2023

- Completed Associate of Science
- **Coursework:** Computer Architecture, Python Programming

University of Houston, B.S. in Computer Science — August 2023 – Present

- **Coursework:** Learning Algorithms, Computational Methods, Data Science, Database, Operating Systems

Projects

Online Clothing Store - Web App (Link) — Aug 2024 - Dec 2024

- Worked with a team of four to design and implement a responsive website for an online clothing store.
- Designed and developed a user-friendly interface with multiple filtering options for clothing products, including categories, sizes, and pricing. Implemented a database and real-time inventory management system to efficiently handle user accounts, store data, and process orders instantly.
- Tools Used: HTML/CSS, JavaScript, Python, React, Node.js, Express.js, MySQL

Skin Cancers Detection - Machine Learning — Aug 2024 - Dec 2024

- Developed a skin cancer detection system using TensorFlow and various machine learning models such as CNNs, ResNet, MobileNet.
- Applied image preprocessing, data augmentation, and feature extraction by deep learning networks, improving identification and prediction.
- Compared and applied fine-tuning hyperparameters of different machine learning models to identify the best-performing model for prediction.
- Tools Used: Python, Keras, TensorFlow, scikit-learn, pandas

COVID 19 Detection - Machine Learning (Link) — Jan 2025 - May 2025

- Using Pytorch, Pandas, and Scikit-learn, to build a COVID detection system with multiple algorithm methods.
- Develop and implement customized CNN models and pretrained models. Apply preprocessing, transforming, and fine-tuning to optimize COVID-19 Prediction.
- Customized CNN and pretrained models were applied to perform feature extraction. Implement LSTM and machine learning methods to predict COVID-19.
- Compared results and optimized model layers and parameters.
- Tools Used: Python, PyTorch, pandas, scikit-learn

Approval System - Web App (Link) — Jan 2025 - May 2025

- Working as a team to build a submission approval system.
- Submission System: Using Django and HTML/CSS to build a website for form submissions. Form data will be stored in PostgreSQL and retrieved for further actions such as adjusting or converting LaTeX to PDF.

- Approval System: Using Django to build workflow rules to assign form reviews to sub-units based on the customized hierarchy. The review jobs can also be delegated to another person. Using HTML/CSS to build a dynamic website for employee feature.
- Collaborating with another team to integrate and expand the service using Django and React.
- Tools Used: Django, React, Latex, PostgreSQL, HTML/CSS

Skills

Soft Skills: Computer Building and Repairing, Time Management, Problem Solving, Teamwork, Adaptability, Leadership.

Languages: C++, Java, Python, JavaScript, HTML/CSS, SQL

Frameworks/Libraries: React, .NET, Node.js, Express.js, Django, Makefile

Machine Learning: Tensorflow, Auto-Keras, PyTorch, CNNs, LSTMs

Development Tools: Git, Docker, Anaconda, Visual Studio Code, Matlab