Hung-Yi (Tony) Wu

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EDUCATION

National Yang Ming Chiao Tung University (NYCU, former NCTU) — Hsinchu, Taiwan

B.S. in Computer Science, Overall GPA: 4.00/4.30 — 2018–2022

- Honors:
  * 2019 Hsinchu Du Cheng Huang Temple Scholarships for outstanding students
  * 2020 Taipei Wenchang Temple Scholarship for outstanding students
- Relevant Coursework:
  * Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Digital Image Processing, Computer Graphics, Multimedia, Computer Organization, Operating Systems, Linear Algebra, Discrete Mathematics, Probability, Formal Language, Numerical Methods, Computer Networks, Network Programming, Principle of Communications and Wireless Networks, Database Systems, Computer System Administration

WORK EXPERIENCE

Synopsys, Inc. — Hsinchu, Taiwan

R&D Engineer Intern — July 2021–August 2021

PROJECTS

Fake News Detection using a BERT-Based Deep Learning Approach — May 2021–June 2021

Artificial Intelligence - National Chiao Tung University

- Utilized LSTM, Bidirectional LSTM, CNN-BiLSTM, and BERT-based model to perform fake news detection
- Successfully achieved 97% to 99% accuracy on University of Victoria ISOT Fake News Dataset

Camera-Based Table Tennis Posture Analysis — September 2020–June 2021

Computer Vision & Machine Learning - National Chiao Tung University

Advisor: Prof. I-Chen Lin

- Utilized an SVM model to classify table tennis players' postures (forehand, backhand, etc.) with skeleton detection. Successfully achieved 92% overall accuracy on test videos
- Built a model to trace balls and tables by Semantic Segmentation with Google AI's EfficientNet with a 90% average IoU score on test images

Stock Price Prediction — April 2021

Personal Side Project

- Implemented a Long Short-Term Memory model to predict stock prices for the next 10 days based on data for the past 1000 days. Data was fetched by Yahoo! Finance API
- Successfully verified and visualized the trends of actual and predicted stock prices for the past 10 years

BBS and Chat Room System — September 2020–December 2020

Network Programming Personal Project - National Chiao Tung University

- Constructed a Bulletin Board System in Python to allow users to create boards, posts, comments
- Created a chat room service within the BBS to allow users to privately/publicly chat with other users

SKILLS

- **Programming:** Python, C++, Go, MySQL, MATLAB, C, HTML, CSS, JavaScript, PHP, Shell Script, LaTeX
- **Others:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, Matplotlib, Seaborn, Git, Nginx