Yu-Li Wang

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Education

National Yang Ming Chiao Tung University (NYCU)	July 2021 - Present
Bachelor of Science in Computer Science (GPA: 3.73 / 4.3)	*Hsinchu, Taiwan*

- **Relevant Coursework:** Data Structures and Object-Oriented Programming, Introduction to Artificial Intelligence, Introduction to Machine Learning, Introduction to Algorithms, Computer Animation and Special Effects, Introduction to Image Processing, Brain-Computer Interface

Experience

Cognitive Engineering and Computational Neuroscience Lab	September 2023 - June 2024
Research Assistant	*Hsinchu, Taiwan*

- Design an adaptive pipeline process that generates a threshold by reading brainwaves automatically, This design is innovative because it uses unsupervised learning, showing its effectiveness through the results.
- The pipeline automates the entire process, **eliminating the need for manual control of parameters.**
- Skills : Digital Signal Processing, Unsupervised Learning Models, Designing Pipeline Flowcharts

Projects

Sentiment Analysis of Top View Movies' comments from IMDb	May 2023 - June 2023
Utilizing NLP to extract and recommend the most popular movies of the year based on reviews.	*Hsinchu, Taiwan*

- Design a web crawler in Python to extract reviews from the IMDb website.
- Utilize two language models, Bert and LSTM, to analyze reviews.
- project-link

Mind-Controlled Car	November 2023 - January 2024
Using brain signal data to control the turning movements of a remote-controlled car.	*Hsinchu, Taiwan*

- Design an algorithm to enable the car to move in four directions.
- Find the optimal threshold based on the brainwaves.
- project-link

Portfolio Website	July 2024
Using Frontend framework Vue to build my personal website	*Chiayi, Taiwan*

- project-link

Awards

Fundamental Courses Awards of Discrete Mathematics: Top 3% of the class

Technical Skills

Languages: C/C++, Python, Matlab
Framework: Vue
Technologies: OpenGL, Git, Linux, WSL, Pytorch, Docker, Blender
Concepts: Operating System, Virtual Memory, Cache Memory, Artificial Intelligence, Machine Learning

Leadership and Volunteering

NYCU Computer Science Student Association	June 2023 - June 2024
Equipment Officer	*Hsinchu, Taiwan*

- Management of classroom reservations and the use of departmental props.
- Through diligent efforts, fostering a conducive environment for the Computer Science Department.
- Skills: Collaboration, Ability to work with others, Communication skills, Efficient task organization