**3Jiyang (Patton) Yin**

[pyin@wesleyan.edu](mailto:pyin@wesleyan.edu) • 860-625-2815 • linkedin.com/in/patton-yin-568763253

**EDUCATION**

**Wesleyan University,** Middletown, CT May 2025

*Bachelor of Arts*, Cumulative GPA: 3.70/4.00; Comp Sci Major GPA: 4.0/4.0

**Double Major:** Computer Science; Mathematics

**EXPERIENCE**

*Research Fellow,* **College of Integrative Science**, Middletown, CT May 2023 – Aug 2023

* Applied reinforcement learning to identify potential cancer treatments.
* Experience working with the Generative Adversarial Network in drug generation

*Research Assistant,* **Qualitative Analysis Center**, Middletown, CT Feb 2023 – Present

* Investigated gun safety by analyzing patents and pricing data, scraped web data utilizing Python.
* Employed GPT-API to collect data, do text analysis.
* Developed package that run network analysis, textual analysis, and data visualization on existing datasets.

*Research Assistant,* **Robotics Research**, Middletown, CT Aug 2023 – Present

* Research on soft sensor, motion control with 3D printing, implementing robotic straps, building models.
* Designed linear and convolutional neural networks to process sensor signals for strap pose estimation.

**INDEPENDENT PROJECTS**

*Developer,* **Web App development (**https://github.com/PattonYin/YY\_music\_mobile**)** Aug 2023 – Dec 2023

* Experience with React Native mobile application framework using Expo, following the REST API
* Experience with backend SQL database and php coding applying the MVC architecture
* Developed frontend UI both for Web and Mobile app and wrote testing codes, Continuous Integration.

*Developer,* **OurCampus - Mobile Application**  Nov 2023 – Present

* Restructure Front end UI with more focus on the navigation hierarchy, and making the code scalable
* Experience accessing, querying the Firebase Backend Database

*Developer,* **Soccer Data Analysis (https://github.com/PattonYin/Soccer\_Data)** Apr 2023 – Present

* Conducted exploratory data analysis with traditional ML Algorithms: Decision Tree; k-means; PCA
* Developed Decision Tree; Random Forest; Linear Neural Network Models to predict game outcome
* Massive experience with Data Scraping and Data Cleaning;

*Developer,* **Tic-tac-toe AI**  Apr 2023 – May 2023

* Developed AI using Naïve Bayes Algorithm; Proficient in applying the AI Agent Designing Paradigm

**SKILLS AND INTERESTS**

**Programming Languages:** Proficient: Python, R; Familiar: JavaScript, php, TypeScript, C++, shell, Swift, html.

**Python Package Skills:** torch, sklearn, pandas, numpy, matplotlib, selenium, html\_request

**Machine Learning Skills:** DecisionTree, RandomForest, Logistic Regression, K-means, PAC, LNN, CNN, GAN

**Language:** English, Chinese

**Link to my Github profile:** https://github.com/PattonYin