

YIYI (YVONNE) WU

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EDUCATION

New York University, Graduate School of Arts and Science, New York, NY Sept 2024 – Present
Master of Science in Computer Science Courant

New York University, College of Arts and Sciences, New York, NY Sept 2019 – May 2023
Bachelor of Arts, Joint Major in Economics and Computer Science, **GPA: 3.8/4.0**

Awards: Computer Science Prize for Academic Excellence and Service to the Department (2024), Cum Laude (2023), Dean's List (2019-2023), NYU Founders' Day Award (2023), Julius Silver Scholarship (2022)

Programing Skills: Python, Java, JavaScript, Swift, C, SQL, R, C++

PUBLICATIONS

Wu, Y. (Presentor), Bari, A., Singh, S., Garg, T.P., Ker, E., Wang, C., Kang, B., Simpson, A., Lee, D., Nagel, D. (2024). *Towards Understanding Low Energy Nuclear Reactions: Structuring the Literature and Applying Data Analytics*. 2024 the 9th International Conference on Big Data Analytics, Waseda University, Tokyo, Japan, March 16-18, 2024

Wu, Y. , Bari, A., Garg, T.P., Singh, S., Nagel, D. (2024). *Exploring Artificial Intelligence Techniques to Research Low Energy Nuclear Reactions*. Front. Artif. Intell. Sec. Machine Learning and Artificial Intelligence Volume 7 (doi: 10.3389/frai.2024.1401782)

EXPERIENCES

Researched in AI & Predictive Analysis Lab, New York University New York, NY
Visiting Researcher June 2023 – Present

- Conducted comprehensive data cleaning and organization extracted from published research papers in Lower Energy Nuclear Reactor Community and **streamlined data** for further enhanced analysis.
- Assisted in curating and organizing current research on **Open Domain QA** and Closed Domain search engines.
- Performed a comparative analysis on **Anserini** and **Apache Solr** integrated with BERT by evaluating their predictions on Exact Match and F1 Score.
- Constructed Neural Search Engine integrated with Anserini and **BERT-SQuAD** models to enable the engine to accurately answer questions from users and automatically add highlighted portions in relevant paragraphs with **fine-tuning**.

Founder of the Startup: Latte New York, NY
Chief Technology Officer April 2022 – May 2023

- Independently led a development team of seven to build and launch the App.
- Managed weekly assignments and determined the timelines.
- Conducted **iOS** mobile development in **Swift** by using **XCode** and operated Beta Testing for optimal performance.
- Oversaw the technology stack, including database and coding platforms, ensuring scalability and reliability.
- Implemented Firebase Cloud functions to secure Database connections and a dynamic profile page for user updates.
- Developed advanced recommendation algorithms using KNN and SVD for user network and mentor recommendation.

Software Development Intern in Financial Sciences Corporation Jersey City, NJ
Internship June 2022 – Dec 2022

- Upgraded company products' Web Pages by using **XML Config**, **Java**, and **Javascript** and Connected the Webpage to Data Pipeline.
- Configed File Conversion Algorithms using Tomcat architecture and added new functions with **Maven Dependencies** and **Jars**.
- Developed and maintained the most important product of the company, called ATOM, which is a Treasury Management Software for transaction details visualization and report generations.
- Completed eight parallel **Jira** based projects check-in during the internship.

New York University CEDA Debate Team, New York University New York, NY
Vice President & Junior Varsity Debater Sept 2021 – May 2023

- 2022 C.E.D.A. National Championship Quarter Finalist Novice
- C.E.D.A. Georgetown College Tournament JV Top Speaker
- Participated in new student training and created training materials.
- Engaged in promotional activities on Instagram, Facebook, and at booths.

- Organized weekly meetings to introduce freshmen, reviewed our work, discussed future plans, devised debate strategies, and assisted sponsors including law firms in hosting competitions and outreaches.

PROJECTS

Big Data Science Research, New York University

New York, NY

Participant

February 2023 – May 2023

- Mined Reddit Submission and Comment Data in topic of GameStop Short Squeeze with API/Python **PRAW** and conducted sentiment analysis through **VADER**, and **FinBert**.
- Analyzed the temporal relationships between Reddit sentiment and GameStop Stock Price Fluctuations with **Granger Causality** with rolling window.
- Trained model with **Long Short-Term Memory** to predict stock prices of other companies based on untrained data.

Donor Analysis for USA for UNHCR, Break Through Tech AI

New York, NY

Project Lead

September 2022 – December 2022

- Utilized **Binary Classification** models and **Change Point Detection** to spearhead a data analysis for investigating the relationships between email activities and donating inclination.
- Developed the advanced **Temporal Force-Directed Graph** visualization based techniques through **React.js**, **Express.js**, and **D3**, aiding to clear and concise presentations of donor status and behavior patterns.
- Generated a highly targeted list of potential donors for the upcoming campaigning season.

Developed the Mobile App: Homie, New York University Hackathon

New York, NY

Project Lead

February 2022 – May 2022

- Designed and developed a mobile platform for communications between students who want to walk home together, to help contribute to the safety and mental well-being in the community.
- Acquired location data by Google Maps API and stored data of users through Firebase/Firestore.
- Winner of **HackNYU 2022** in “Track: Health & Wellness” and Artificial Succulent Plants at NYU CS Showcase (2022).