MYNA LIM

Current Address:
13250 SE 55th pl
Bellevue, WA 98006
2067715481
Nationality: USA
ml2326@cornell.edu

EDUCATION

Cornell University, College of Agriculture and Life Sciences, Ithaca, NY
Bachelor of Science, Expected Class of 2024
Major: Information Science (Data Science & Interactive Technology Concentration)
Major coursework:
Obj-Oriented Prog & Data Struc, Tools for Operations Research: Machine Learning and Data Science, Biomedical Data Science, Data-Driven Web Application, Language and Information, Human-Computer Interaction Design, Designing Tech Social Impact, Introduction to Data Science, Intro Design & Programming for Web, Consequences in Computing, Communication and Technology
Math courses: Adv Calc/Differential Eq, Linear Algebra, Multivariable Calculus for Engineers, Statistics for Biology
Award:Spring 2023 Dean's List, Fall 2024 Dean's List

Sammamish High School, Bellevue, WA (2017-2020)
Major coursework: Calculus I, Calculus II, Calculus III/IV, AP Computer Science A
Award: Washington State Honors Award

RESEARCH INTEREST

My research interest is to exploit the intersection of Data Science and various fields such as social and public health. Specifically, how data analysis and ML/DL models can be applied to elicit ubiquitous real-world solutions. Within this realm, my academic pursuits center on data visualization, wearable technology, and artificial intelligence.

PUBLICATIONS

†: co-1st authors, *: co-corresponding authors

Submitted

- Hyeontae Jo†, **Myna Lim**†, Hong Jun Jeon, Junseok Ahn, Saebom Jeon, Jae Kyoung Kim*, Seockhoon Chung*, Data-driven Shortened Insomnia Severity Index: A Machine Learning Approach

INTERNSHI

Institute for Basic Science (Biomedical Mathematical Group) - AI intern   06/2023 - 08/2023
Institute for Basic Science, South Korea

- Used XGBoost model to shorten Insomnia Severity Index (ISI) collaborating/communicating with Asan medical center (#1 South Korea hospital)
- Collaborate and assist Prof. Jae-Kyoung Kim (KAIST, Dept. of Mathematics) with ISI shortening Machine learning models
- Collaborate with the first author of *A machine learning-based simple questionnaire for predicting the risk of sleep disorders* to incorporate InBody data to their published sleep disease detecting algorithm with 2,500 medical data from Samsung medical center (#2 South Korea hospital)

Machine Learning Research Lab - Undergraduate Assistant   05/2022 - 8/2022
Korean National University of Transportation, South Korea - Computer Science department
- Used Deep Learning models to classify 70 MRI scans (test datasets) with four different stages of Alzheimer's disease using 2600 train datasets.
- Used CNN models (ResNet50V2, VGG16, DenseNet121) with TensorFlow library
- Built Image Classification Models (Pre-Processing, Loss, Optimize, Model Evaluation)

EXPERIENCE & EXTRACURRICULAR

Cornell Data Journal   09/2023 - Current
Project team leader
- Facilitate brainstorming sessions and delegate project tasks effectively
- Develop and distribute campus-wide surveys to gather comprehensive feedback
- Provide guidance to teammates on data preprocessing techniques and recommend suitable data visualization approaches
- Showcase the data journal produced by our team during at a semester symposium led by Cornell Data Journal

Cornell Digital Humanities Club   06/2022 - 01/2023
Literature and Linguistics Project Team
- Utilize machine learning techniques (RNN models) to analyze books and visualize linguistic differences in various forms of literature
- Design AI-written poetry

Cornell Taekwondo Club - ECTC D1   01/2020 - Current
- Weekly Sparring/Poomsae practice (5 hours per week)
- Attended regional competitions against other schools (MIT, Brown, etc.)
- Taekwondo black belt (3rd degree)
- State Champion for 2019 USA WA Championship
- Gold Medal in WA state Taekwondo Governor's CUP (2018&2019)

Cornell Thread Magazine   01/2021 - Current
Creative Team Director
- Played an integral role as a member of the creative team in the college thread magazine club.
- Establish a central concept and theme for the magazine, fostering discussions among various roles
- Collaborated with fellow team members to brainstorm, plan, and execute innovative content ideas.

Sea Scout Member   07/2017 - 2021
- Elected a leadership role called "boatswain"
- Participated in 10-days summer cruise in 2018, 2019 and Seal Program (10-days, New York)
- Washington State Boater Education Card

ADDITIONAL SKILLS

- Python
  - TensorFlow
- Java
- Machine Learning
- Deep Learning
- NLP
- SQL
- Tableau
- HTML
- CSS
- R
- JavaScript
  - D3
- Cytoscape
- MS Office
- Statistics
- Bilingual (English, Korean)