SI YEUN (SOPHIE) LEE

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EDUCATION

University of Toronto   Toronto, Canada

Bachelor of Applied Science, Engineering Science | Machine Intelligence   Expected 2025

- Relevant Coursework: Introduction to Computer Programming, Computer Algorithms & Data Structures, Foundations of Computing, Engineering Mathematics and Computation, Calculus I, Linear Algebra, Calculus II, Applied Fundamentals of Machine Learning, Introduction to Machine Learning, Probability & Statistics, Machine Intelligence, Software and Neural Networks, Artificial Intelligence, Probabilistic Reasoning

WORK EXPERIENCE

Wattpad   May 2022 – August 2023

Associate Engineer

- Reviewed and updated onboarding documentation, shortening onboarding duration for new hires by 200%
- Presented the automation workflow of a major business metric in an engineering meeting of 70+ people
- Manipulated data tables in Redshift to address 4 business analytics requests from stakeholder requests using SQL
- Managed the data production and evaluation of a key user metric, resulting in improved accuracy by 38%

EXTRACURRICULAR EXPERIENCE

Trustworthy Machine Intelligence (TMI)   October 2022 – Present

Student Advisor (former Co-President)

- Hosted 2 Annual General Meetings and a TMI panel at Immersion Day 2023, resulting in 107 Discord members
- Organized and guided an executive team of 8 to establish monthly newsletters, a club website, and 3 projects
- Navigated the university's systems to acquire a total of $999 for funding and book rooms for club events
- Collaborated with core UTMIST executives to introduce TMI's initiatives to 35 Immersion Day participants

University of Toronto Engineering Kompetition (UTEK) 2021   January 2021

Programming Competition: Top 5

- Directed a team of four by determining the general structure of the program and effectively distributing tasks
- Implemented a pathfinding algorithm using Python within 6 hours to aid those with mobility disabilities
- Coded the A* search algorithm along with heuristics to increase efficiency in finding the minimum weight path
- Presented the solution for 10 minutes to 4 judges to communicate the details and capability of the solution

PROJECTS

Perforyou: Perfume Recommendation System   January 2022 – April 2022

- Led a team to investigate 3 machine learning models to create a perfume recommendation system
- Collected 4 original raw datasets consisting of item and user data by data-scraping 2 websites using Python
- Preprocessed data in preparation for training, resulting in 2 datasets with 43,786 and 30,960 entries each
- Trained the Item2Vec model on dataset and achieved a Recall@20 that exceeded the other models by 11.5%

SKILLS

Languages, Frameworks, and Libraries:
Python, MySQL, C, MATLAB, PyTorch, scikit-learn, Pandas, NumPy, matplotlib
Relevant Software: Git, AWS (Sagemaker, ECR, S3, EC2, Redshift), Docker, Datadog, dbt
Communication: English (native), Korean (native)