Sadie Lee

Email: leesadie025@gmail.com | LinkedIn: @leesadie | Github: @leesadie | Portfolio: leesadie.vercel.app

Education

University of British Columbia Vancouver, BC, CA

Bachelor of Arts in Cognitive Systems; Minor in Data Science *2022 – 2026*

Coursework: Statistical Inference, Databases in Data Science, Applied Machine Learning, Programming and Algorithms, Symbolic Logic, Designing Cognitive Systems, Cognitive Neuroscience

Experience

Research Student - Mayo Clinic Platform Summer 2025

Mayo Clinic

- Conducting research on understanding risks to patient privacy when using medical images to train an AI model

Undergraduate Intern - Mayo Clinic Platform Summer 2024

Mayo Clinic

- Built a 3D classification model and 3D segmentation model with MR prostate DICOM images to develop and test an end-to-end AI imaging workflow – PyTorch, TorchIO, torchvision, Nibabel, Pydicom, Sklearn, Linux OS
- Wrote queries in SQL to identify data cohorts for potential customers
- Developed customer acquisition dashboards and product insight dashboards with Power BI and DAX

Research Assistant May 2023 – Apr. 2024

BC Children's Hospital Research Institute / UBC Faculty of Medicine

- Implemented scripts to automate collection and analysis for time in range data – R, tidyverse
- Led focus groups to gain user feedback on new mobile application features for a study investigating the effects of digital peer-led mental health support for adults with type 1 diabetes
- Wrote a manuscript detailing the co-design and development process of the mobile application

Software Developer Summer 2023

UBC Emerging Media Lab (EMLx)

- Designed and implemented a web app for self-guided forest bathing – TypeScript, React, Node.js, MongoDB
- Integrated the Mapbox API for location-based augmented reality in Unity and Needle Engine

Research

Formalizing Ethical Design in Prostate Cancer Image Analysis: A Preliminary Case Study

Accepted by 2024 IEEE MIT Undergraduate Research Technology Conference

Topological Data Analysis and Interpretability of 3D-Convolutional Neural Networks

Accepted by 2024 AAAI Undergraduate Consortium

Technical Skills

Languages: Python, R, SQL, C#, Javascript, Typescript, LaTeX, HTML, DAX
Technologies & Environments: Git, Jupyter, Unity, Power BI, MongoDB, React, Next.js, Node.js, Oracle, Windows, Linux
Libraries: pandas, numpy, Matplotlib, PyTorch, torchvision, NiBabel, Pydicom, Sklearn, NetworkX, tidyverse, D3.js

Leadership and Volunteering

Deep Learning Researcher Mar. – Dec. 2023

UBC Multifaceted Innovations in Neurotechnology

- Classified brain tumor MR images with CNNs – PyTorch
- Conducted literature reviews to explore interaction between humans and reinforcement learning agents

Data Science Consultant Jan. 2023 – Apr. 2023

180 Degrees Consulting

- Built a KPI dashboard in Looker (Google Data Studio) to evaluate impact for a non-profit organization
- Conducted market research by designing and distributing a questionnaire