

Andy (MY) Tai

PhD in Neuroscience and experienced Data Scientist aiming to leverage machine learning expertise to tackle complex problems in industry.

EXPERIENCE

Concussion RX, Vancouver, BC, Canada — *Data Scientist*

April 2024 - Present

AI-powered concussion care position focused on enhancing diagnosis and treatment using advanced AI tools like ConcussionRX and Llama 3. Key tasks include developing healthcare professional onboarding documents, employing machine learning and statistical modeling to analyze and stratify concussion subtypes based on demographic data.

NAI Innovations, Vancouver, BC, Canada — *Analyst*

April 2024 - Present

Specialize in evaluating ML-driven startups and companies in medical cannabis symptom management. Analyze data trends, optimize algorithm performance, and communicate findings. Lead strategic AI initiatives aligned with advances in neuroscience and psychiatry.

University of British Columbia, Computer Science Department, Vancouver, BC, Canada — *Teacher's Assistant*

January 2020 - April 2024

Acted as a Teaching Assistant in over 30 courses across the Masters of Data Science program, covering key topics such as data visualization, statistical inference, collaborative software development, privacy and ethics, data manipulation, and machine learning applications. Facilitated the learning of advanced concepts in computer science and data science, contributing significantly to both course design and student success.

EDUCATION

University of British Columbia, Vancouver, BC, Canada — *Ph.D. in Neuroscience*

September 2019 - May 2024

PhD in Neuroscience at the University of British Columbia focusing on the intersection of technology and mental health. Developed machine learning models to predict overdose risk, achieving a significant accuracy of 90% and AUC of 0.9, addressing the opioid crisis. Led the Addictions and Concurrent Disorders (ACD) Research Group, publishing 12 international manuscripts and collaborating with global experts under the guidance of Dr. Michael Krausz.

University of Toronto, Toronto, ON, Canada — *B.Sc. in Neuroscience*

September 2012 - May 2017

Major in Neuroscience, Minor in Environmental Science and Religion

PROJECTS

Sherpa — *Blog Writer Demo*

Developing the Blog Writer demo with Sherpa and LangChain, enabling automated blog creation from audio transcripts using LLM APIs. This demonstrates Sherpa's ability to enhance workflows through flexible AI integration.

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Languages

R

Python

SQL

SPSS

SAS

Tools

Git

Jupyter

Scikit-learn

Tidyverse

LangChain

Docker

Tableau

AWS Services

AWARDS

Mitacs Globalink Research Award (GRA)

UBC Master of Data Science Teacher's Assistant Award President's Academic

Excellence Initiative PhD Award

2021 Research Day Lightning Talk & Poster People's Choice Award