NADINE EL-MUFTI

Canadian Citizen, residing in ♥ Montreal, QC

📱 (514) 802-3932 | M | ⬡ | in |

WORK EXPERIENCE

Centre of Excellence in Youth Mental Health (CEYMH)　　　　　　Montreal, Quebec
Graduate Research Assistant　　　　　　May 2025 – Present

- Driving research on speech-based relapse prediction in schizophrenia as part of the MOTS+ project, collecting and integrating data from participants at three clinical research sites.
- Shaping the development of the Québec Speech Bank, contributing to a province-wide infrastructure for mental health diagnostics through structured data design and multimodal analysis.
- Streamlining workflows with REDCap, coding data pipelines, and co-refining scientific questions that bridge language, symptoms, and cognition.

Applied Perception Lab　　　　　　Montreal, Quebec
Graduate Research Assistant　　　　　　Dec 2024 – Present

- Conducting research at the intersection of AI, ethics, and EDI, developing frameworks to address societal challenges and promote responsible healthcare technology.

Mila - Quebec AI Institute　　　　　　Montreal, Quebec
Collaborating Researcher　　　　　　Oct 2024 – Present

- Conducting novel research in Medical Machine Learning to facilitate early disease detection through speech analysis.

Concordia University　　　　　　Montreal, Quebec
Teaching Assistant　　　　　　Jan 2025 – April 2025

- Achieving consistent and fair grading for Concordia's Machine Learning course 'Comp 432' by marking labs, delivering prompt feedback, and addressing inquiries from 110 students.

Climate Change AI Summer Program　　　　　　Montreal, Quebec
Participant　　　　　　Jun 2024 – Aug 2024

- Participated in an AI for Climate Change program leveraging Machine Learning as a key driver of innovation alongside policy to strengthen environmental strategies and combat climate change across different sectors.

Applied Perception Lab　　　　　　Montreal, Quebec
NSERC USRA Research Assistant　　　　　　May 2022 – Aug 2022

- Co-authored a conference paper for Medical Image Computing and Computer Assisted Intervention (MICCAI) 2022's Ethical and Philosophical Issues in Medical Imaging (EPIMI) workshop, presenting a comprehensive User-Centered Design approach to identify and address Ventriculostomy surgeons' workflow challenges, to improve surgical efficiency.

SKILLS

HTML · CSS · JavaScript · React.js · SQL · Python (scikit-learn, TensorFlow, Keras, PyTorch) · Machine Learning (Supervised & Unsupervised & Reinforcement Learning) · Statistical Analysis & Data Visualization (Matplotlib, Seaborn) · Exploratory Data Analysis (EDA) · Data Preprocessing & Feature Engineering · Model Development & Evaluation · Flask · Streamlit · Microsoft Power BI · Tableau · Docker · Microsoft Office Suite · UX/UI Interaction Design · Graphic Design · Adobe Creative Suite · Tech Stewardship

LEADERSHIP & COMMUNITY ENGAGEMENT

Member   Montreal, Quebec
Concordia Council on Student Life Subcommittee | Concordia University   Jan 2025 – April 2025

Mentee   Montreal, Quebec
GEMinAI Program | Concordia University's Applied AI Institute   Oct 2024 – April 2025

Ambassador   Montreal, Quebec
School of Graduate Studies | Concordia University   Sep 2024 – Present

EDUCATION

Master of Computer Science | Computer Science   Montreal, Quebec
Concordia University / Mila - Quebec AI Institute   Jan 2025 – Present

Bachelor of Engineering | Software Engineering   Montreal, Quebec
GPA (3.67) | With Distinction   Jan 2019 – May 2024
Concordia University

LICENSES & CERTIFICATIONS

[TRAIL Research | Trustworthy and Responsible AI Learning Certificate](#)   Mar 2025
Issued by Mila - Quebec Artificial Intelligence

[TCPS 2: CORE 2022 Certification](#)   Jan 2025
Issued by the Government of Canada

[Tech Stewardship Certification](#)   Jul 2024
Issued by the Tech Stewardship Network

PUBLICATIONS

[User-Centered Design for Surgical Innovations: A Ventriculostomy Case Study](#)
Lecture Notes in Computer Science — Volume 13755 · Dec 20, 2022

HONORS & AWARDS

NSERC CGS-M Award   Apr 2024
Issued by the Natural Sciences and Engineering Research Council of Canada

NSERC Undergraduate Student Research Award (USRA)   May 2022
Issued by the Natural Sciences and Engineering Research Council of Canada

Bourses d'Excellence for Engineering Scholarship   Jun 2022
Issued by the Quebec Ministry of Education