

NADINE EL-MUFTI

Canadian Citizen, residing in 📍 Montreal, QC

📞 (514) 802-3932 | ✉️ | 🌐 | 🌐 | 🌐 |

WORK EXPERIENCE

Applied Perception Lab

Graduate Research Assistant

Montreal, Quebec

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

Collaborating Researcher

Montreal, Quebec

Oct 2024 – Present

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

Concordia University

Teaching Assistant

Montreal, Quebec

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

Participant

Montreal, Quebec

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

NSERC USRA Research Assistant

Montreal, Quebec

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.

Zero Waste Concordia

Zero Waste Concordia Assistant

Montreal, Quebec

Jan 2022 – Apr 2022

- Played a pivotal role in advancing Concordia's Zero Waste plan by supporting the implementation of waste reduction initiatives across campuses, including new recycling procedures and educational programs, with the goal of achieving 90% landfill diversion and 50% total waste reduction by 2040.

SKILLS

HTML · CSS · JavaScript · React.js · SQL · Python (scikit-learn, TensorFlow, Keras, PyTorch) · Machine Learning (Supervised & Unsupervised 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

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| Member Concordia Council on Student Life Subcommittee Concordia University | Montreal, Quebec Jan 2025 – April 2025 |
| Mentee GEMinAI Program Concordia University's Applied AI Institute | Montreal, Quebec Oct 2024 – April 2025 |
| Ambassador School of Graduate Studies Concordia University | Montreal, Quebec Sep 2024 – Present |

EDUCATION

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| Master of Computer Science Computer Science <i>Concordia University and Mila</i> | Montreal, Quebec Jan 2025 – Present |
| Bachelor of Engineering Software Engineering GPA (3.67) With Distinction <i>Concordia University</i> | Montreal, Quebec Jan 2019 – May 2024 |

LICENSES & CERTIFICATIONS

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| <u>TRAIL Research Trustworthy and Responsible AI Learning Certificate</u> Issued by Mila - Quebec Artificial Intelligence | Mar 2025 |
| <u>TCPS 2: CORE 2022 Certification</u> Issued by the Government of Canada | Jan 2025 |
| <u>Tech Stewardship Certification</u> Issued by the Tech Stewardship Network | Jul 2024 |

PUBLICATIONS

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| <u>User-Centered Design for Surgical Innovations: A Ventriculostomy Case Study</u> Lecture Notes in Computer Science — Volume 13755 · Dec 20, 2022 |
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HONORS & AWARDS

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| NSERC CGS-M Award Issued by the Natural Sciences and Engineering Research Council of Canada | Apr 2024 |
| NSERC Undergraduate Student Research Award (USRA) Issued by the Natural Sciences and Engineering Research Council of Canada | May 2022 |
| Bourses d'Excellence for Engineering Scholarship Issued by the Quebec Ministry of Education | Jun 2022 |