Jeslyn Wang

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EDUCATION

B.A.Sc in Computer Engineering + PEY Co-op, University of Toronto Expected 2026

- CGPA: *3.77*, Dean's Honour List for 5 terms
- Intended minors in **Artificial Intelligence** and **Engineering Business**
- GenAI Hackathon 2025 Organizer, Marketing Chair for Canada's largest AI hackathon

SKILLS

- **Languages:** Python, C, C++, C#, SQL, MATLAB, HTML, CSS, Javascript
- **Tools:** Git, PyTorch, Tensorflow, AWS (DVA-C02 Certification), Prefect, Snowflake, Jupyter, Docker, Unity, React, Dask, Blender
- **Machine Learning:** Model Lifecycle, Data Pipelines, Model Deployment, A/B Testing, Data Mining, Regression Analysis

EXPERIENCE

Applied Machine Learning Intern | Xero May 2024 - August 2025

- Developed model in **Python using Tensorflow** to extract amount values from financial documents and **boosted accuracy by over 7%** through implementing batching inference, **leading to overall accuracy of 90%**.
- Executed **model training, data analysis, and A/B testing efforts**, enabling production rollout of the model now running smoothly for **100k+ daily users**.
- Led A/B testing for ML model deployment, proving the new model outperformed the legacy system and justifying its rollout to production
- Designed and implemented a **data pipeline** to collect and aggregate data from **web-scraping** external sources
- Utilized **Snowflake and S3** to efficiently store large datasets for scalable querying, analysis and model training
- Applied **LLM distillation and prompt engineering** to transfer the knowledge from a Haiku model to a smaller T5 model while maintaining performance and accuracy

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Research Intern (NSERC Undergraduate Summer Research Awards) | Microfluidics BioMEMS Lab May 2023 - September 2023

- Developed wearable sensors for stroke patient recovery to collect IMU data for upper extremity movement.
- IMU data processed and segmented using Python and Jupyter Notebook, reducing noise from signals.
- Researched deep learning LSTM model, using Pytorch to accurately categorize recorded patient movements.

PUBLICATIONS

- **Trust Semantics Distillation for Collaborator Selection via Memory-Augmented Agentic AI**. (2025). arXiv:2509.08151.
- **Graphene Oxide-Based Nanostructured DNA Sensor** . (2019). PubMed.
- **Beyond Words – A Multimodal AI Coaching Tool to Enhance Communication Skill Development in Engineering Education** (In Progress). Capstone paper for submission to ASEE Conference.

PROJECTS

"Multi-Model AI-Driven Presentation Evaluator" - Capstone Project *(Python, Jupyter, CSS)*

- Developing a **multi-modal AI system** that analyzes video, audio, and speech to provide feedback on presentation skills.
- Applying ML techniques across **speech, computer vision, and NLP**, including **feature extraction, clustering, and LLM prompting**, to generate actionable coaching insights.

"Kpop Demon Hunters ChatBot" - Personal Project *(Javascript, CSS, HTML)*

- Developed a lightweight chatbot interface using **GPT-4.1**, demonstrating proficiency in **API integration and prompt engineering**.
- Implemented a **user-friendly and engaging interface**, showcasing attention to user experience (UX) and design aesthetics.

"Pokémon Type Classifier Deep Learning Model" - Class Project *(Python, PyTorch, Jupyter)*

- Trained CNN with **Python, PyTorch and Jupyter Notebook** to classify 18 Pokemon types, achieving over 60% accuracy.
- **Data processing and augmentation** using Python creating a dataset of over 10000 images.

"UTMIST x AIW" - Unity-NEAT Project *(Unity, C#, PyTorch, Python)*

- Conducted **AI agent simulation supported by YouTube Channel, AI Warehouse** on creature evolution and interaction.
- Lead development of visual design and implemented visual aspects in Unity.
- Helped built simulation environments in Unity/C, enabling real-time evolutionary experimentation and visual feedback through neural network evaluation.

LEADERSHIP

VP Marketing | UofT Machine Intelligence Student Team May 2024 - May 2025

- Led a marketing team of 11 members to promote AI/ML initiatives, engaging **3,500+ students and industry professionals through data-driven strategies**.
- Increased social media following by **36% (over 1,000 new followers)** by utilizing analytics from Instagram and LinkedIn to inform content and campaign strategies.
- Increased social media following of hackathon account by over **50% (over 400 new followers) through data-driven strategies**.
- Spearheaded promotions that attracted over **500 applications** for UTMIST positions, significantly boosting membership interest and engagement.