

# Aurélie Gallet

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## Education

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### Master of Science Computer Science

2025 – present

McGill University, Canada – GPA: 4.0/4.0

Relevant Coursework: Natural Language Understanding with Deep Learning, Applied Machine Learning

### Bachelor of Science Artificial Intelligence

2022 – 2025

University of Groningen, Netherlands – Graduated Summa Cum Laude

Relevant Coursework: Machine Learning For Industry, Neural Networks, Reinforcement Learning

## Research Experience

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### Expert Elicitation and Sycophancy in Large Language Models (LLMs)

Oct 2025 – Dec 2025

Graduate Research project, McGill University

- Evaluated the impact of expert persona elicitation on LLM robustness to misleading feedback using few-shot prompting within a multi-turn forecasting pipeline implemented via the OpenRouter API
- Quantified sycophancy-related robustness using Brier scores and an LLM-as-judge framework for reasoning consistency, finding that domain-aligned expert prompting improved robustness in 7 out of 9 models

### Impact of Contrastive Learning on Explanation Quality

Feb 2025 – Jul 2025

Bachelor's Thesis, University of Groningen

- Compared Supervised Contrastive Learning versus Cross-Entropy loss on Grad-CAM explanation quality using PyTorch and scikit-learn on skin cancer classification images (HAM10000 dataset)
- Performed statistical tests and found a statistically significant improvement in explanation faithfulness (median IROF: 70.39 vs 51.36)

## Projects

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### Pollution Forecasting System

Sep 2024 – Nov 2024

- Trained LSTM ensemble model for 3-day NO<sub>2</sub>/O<sub>3</sub> pollution forecasting using environmental data from multiple governmental organizations with feature engineering for temporal and seasonal patterns
- Deployed proof-of-concept model on Hugging Face with automated daily predictions, REST API for real-time inference, and administrative dashboard for monitoring
- Built validation and monitoring for the deployment pipeline (missing data checks, KS-test drift detection, out-of-range warnings) and defined MAPE-triggered retraining criteria

### Office Equipment Inventory System

Feb 2024 – Jun 2024

- Co-developed a full-stack web application for client Gomibo/Belsimpel to replace their manual Excel-based inventory tracking system
- Implemented the employee search/detail (equipment, teams) views in React (HTML/CSS/JS) and integrated them with the Laravel/MySQL backend, deployed via Docker

## Skills

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- **Programming:** Python, Java, C, SQL, R, LaTeX, Git
- **ML & Data:** PyTorch, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, TensorBoard
- **Deployment:** Docker, Hugging Face, FastAPI/Flask, HPC/GPU clusters
- **LLM & Prompting:** Hugging Face Transformers, OpenRouter API, Prompt Engineering, Few-Shot Learning
- **Languages:** English (native), French (native)