YUNKUN (HARRIS) YANG

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EDUCATION

PhD in Information: 09/2025 - Present
> **University of Toronto** - Toronto, Canada

MEng in Mechanical & Industrial Engineering: Analytics Emphasis, 08/2023
> **University of Toronto** - Toronto, Canada

Honours Bachelor of Mathematics: Statistics, Co-operative Program, 06/2020
> **University of Waterloo** - Waterloo, Canada

RESEARCH & PROJECTS

LLM Safety Practitioner Engagement | University of Toronto | 12/2025 – Ongoing
- Conducting a mixed-methods study (survey + interviews) with engineers to examine how LLM safety is practiced across enterprise and start-up contexts
- Investigating the gap between academic AI safety frameworks and real-world deployment, focusing on how practitioners' mental models of risk shape production-level safety decisions
- Translating findings into practical frameworks that better reflect the cognitive and operational realities of LLM deployment

Automated Invoice Processing Pipeline | Maclear Data Solutions | 09/2025 – 03/2026
- Designed and deployed a multi-agent LLM pipeline on Azure to automate financial invoice processing, replacing manual workflows for enterprise and regulatory clients
- Integrated OCR, dynamic schema determination, and human-in-the-loop (HITL) checkpoints within a CI/CD framework to handle template variability and prevent error propagation
- Conducted client interviews to gather compliance requirements, and developed supporting APIs, UI, and database infrastructure to meet audit and regulatory standards

LLM applications survey among students | University of Waterloo | 05/2024 - Ongoing
- Conducted surveys among students assess LLM adoption patterns, perceived relevance and impact in academic setting.
- Identified key factors influencing student engagement, including usability concerns, trust issue and pedagogical misalignment.
- Updated and refined teaching material based on students' response and provide actionable insights of using of LLM.

Financial Scenario Generation Model |Maclear Data Solution | 04/2023 - 10/2023
- Researched and implemented financial scenario time series reconstruction model using LSTM-VAE
- Developed stress testing model to generate financial time series for risk scenario and portfolio evaluation
- Utilized the simulated scenario to enhance stock trading reinforcement agent for robustness

Stock Trading Strategy Agent | University of Toronto | 05/2023 – 06/2023
- Assisted Finance Professors to research reinforcement learning based trading strategy
- Trained RF model for the demonstration, achieved great profit and passed the white-reality test
- Crafted the template and demo as teaching material for the following seminars

Mental Health Chatbot |University of Toronto | 01/2023 - 03/2023
- Fine-tuned GPT model for mental health question-answering and deployed interactive UI
- Generated mental health Q&A pairs using GPT augmentation to expand training data while maintaining clinical accuracy and ethical guidelines.
- Mechanistic interpreted the model for reasoning patterns & implemented safety protocols
- Conducted workshops to assess user perceptions and trust.

PROFESSIONAL EXPERIENCE

Lecturer, 05/2024 to Present   **University of Waterloo**, Waterloo
- AFM 346 (Applications of Predictive Analytics in Accounting and Finance)
    - 2024 Fall; 2025 Winter, Spring, Fall; 2026 Spring, Fall; …
    - Redesigned the entire course curriculum to incorporate AI & Agentic AI systems
    - Course adopted as a mandatory program-wide requirement starting 2027
- AFM 444 (Business Analytics Project Management): 2024 Spring
- AFM 345 (Social Data Analytics) 2025 Winter

AI Engineer & Consultant, 02/2024 to Present   **Maclear Data Solution Inc.**, Toronto

- Designed and developed multiple LLM-based products for financial regulators and European banks, implementing safety guardrails and audit-ready infrastructure for production deployment
- Developed network analysis framework to identify individuals with risk in fraudulent activities.
- Conducted client interviews to surface compliance and operational requirements, translating findings into production-level systems for both technical and non-technical stakeholders
- Initiated R&D projects including LLM-as-a-Judge compliance evaluation and semi-supervised document categorization.
- Contributed to AI-powered marketing automation systems using foundation models, with a quality evaluation framework to assess and ensure output reliability

Data Scientist, 01/2021 to 08/2022   **Maclear Data Solution Inc.**, Toronto

- Trained deep learning models to predict time-based mortgage prepayment rate with visualized model explanations
- Utilized MLflow for model tracking and lifecycle management and monitoring the model result using NoSQL
- Collected financial data through implementation using Docker and Selenium

Machine Learning Engineer & Researcher (Co-op), 05/2019 to 08/2019   **Bonsai**, Toronto

- Researched paper and different techniques to construct Computational Vision algorithm for images and video
- Designed, implemented and evaluated different models and prototypes and developed with other engineers in production
- Reproduced image classification model from various scholarly research papers using Google Cloud Platform

INTEREST

Rap, 2015 to Present

- Released 6 Remix Albums in Spotify and NetEase Music