

Arshia Feizmohammady

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Education

University of Toronto, BSc. in Industrial Engineering, Minor in Mathematics Sep 2023 - Apr 2027

- **Coursework:** OOP, DSA, Data Science, Probability, Statistics, Operations Research, Calculus, Linear Algebra

Skills

Languages: Python, SQL, JavaScript, HTML, CSS, React

Tools: Git, Docker, GCP, PyTorch, Tensorflow, HuggingFace, Bash, Linux, n8n

Experience

AI Engineer – Commodities Trading, National University of Singapore – Singapore May 2025 – Ongoing

- Engineered sentiment-augmented datasets by scraping OTC trading data across **10+ countries**
- Developed a hybrid trading strategy with **Sharpe ratio 2.4** and **22% annualized return (CAGR)**
- Optimized scalable data pipelines for **multi-market deployment** across **5+ commodities**

AI Engineer – Digital Assets Trading, University of Amsterdam – Remote May 2025 – Ongoing

- Engineered a unified data pipeline for **70+ trading metrics**, reducing reliance on APIs and saving **\$10K+**
- Scaled infrastructure to support **20+ blockchains**, including BTC, ETH, SOL, and Base
- Modeled execution costs by analyzing on-chain **volume, gas fees, and latency** across networks

Founding Engineer (Full Stack), PathwayR – Toronto, CA May 2025 – Ongoing

- Developed and deployed the company **website** using React and JavaScript
- Architected a robust full-stack backend using SQL and Node.js to support secure user authentication, scalable account creation workflows, and efficient role-based database management
- Designed responsive front-end UI using React for role-based user interaction (students, mentors, faculty)
- Implemented custom ML algorithms for user matching, ranking, and recommendation systems

Business & Growth Intern, KON Aerosystems – Toronto, CA Aug 2024 – Ongoing

- Built end-to-end web scraping pipeline to identify and prioritize potential investors
- Engineered Python workflows to analyze competitor supply chains and inform strategic positioning
- Developed in-depth case studies on **10+ companies** to evaluate partnership and collaboration opportunities
- Designed and launched the company **website** using React and JavaScript

ML Researcher – Automotive Forecasting, ISAE-SUPAERO – Toulouse, FR May 2024 – Aug 2024

- Consolidated **40+ years** of global vehicle specification data into structured forecasting datasets using Python
- Boosted forecast accuracy by **15%** through integration of game theory-based behavioral models
- Simulated financial risk scenarios with Monte Carlo methods and authored comprehensive **technical report**

Extracurriculars

Quantitative Research, St. George Capital – Toronto, CA May 2025 – Ongoing

- Leading quantitative research on Ethereum Layer 1 and Layer 2 networks to identify cross-exchange pricing inefficiencies across decentralized liquidity pools using on-chain transaction data
- Developing real-time data pipelines to extract and process on-chain transaction data
- Designing statistical models to forecast smart contract execution costs and gas fee dynamics

Abstractive Summarization & Image Generation, UofT – Toronto, CA May 2025 – Ongoing

- Building an end-to-end pipeline to summarize financial news and generate automated presentation slides from natural language outputs
- Developed and published the baseline transformer model on **GitHub**