

ARVIN ASKARI

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Education

Queen's University

Bachelor of Computing (Honours) + Certificate in Business + QUIP Internship

Sept. 2024 – Apr. 2028

Specialization: Software Design

Experience

Metrolinx

Service & Operational Planning Intern

May 2025 - August 2025

Toronto, Ontario

- Analyzed **50,000+** operational records (punctuality, delays, ridership) across **multiple transit corridors**, informing service planning decisions presented to **senior leadership**.
- Automated recurring **Excel** and **Power BI** workflows used in **weekly executive reporting**, reducing manual processing time by **30%**, improving turnaround time for planning decisions.
- Collaborated with **3+** cross-functional teams to **reconcile datasets** and **validate KPIs**, improving confidence in service adjustment recommendations.

Queen's Machine Intelligence and NeuroDiscovery (QMIND)

AI & Machine Learning Developer - PostopCare Project

September 2025 – Present

Kingston, Ontario

- Contributing to a **RAG AI-driven healthcare platform** used to digitize post-operative instructions, supporting **patient-facing QR-based content delivery** for clinical workflows.
- Applying **LLMs and NLP pipelines** to transform **100+** pages of clinical literature into structured handouts, **reducing manual drafting time by approximately 40 - 60%**.
- Building **automation workflows** for clinicians to securely upload and update documentation using a unified interface.

Queen's Sports Analytics Organization

Data Analyst

September 2024 – Present

Kingston, Ontario

- Analyzed **1,000+** performance metrics to extract actionable insights using Python and statistical methods.
- Built **10+** data visualizations and analytical reports, translating complex datasets into **decision-ready insights**.
- Applied **data validation** and **cleaning pipelines** to improve dataset reliability and reproducibility for team models.

Queen's AutoDrive Team

LiDAR 3D Object Detection & Tracking

September 2025 – Present

Kingston, Ontario

- Integrating **sensor, radar, and LiDAR data** for real-time 3D Object detection and tracking using Python and ROS 2.
- Developing and testing **sensor fusion pipelines** to enhance perception accuracy and environmental awareness.
- Collaborating with **Controls and Planning teams** to ensure reliable data flow for navigation and decision-making.

Projects

NLP Rental Dispute Simulator | Flask, Python, React, Next.js, spaCy, Tailwind CSS

January 2025

- Built a web app simulating tenant-landlord scenarios using **Flask, React, spaCy, and Google Gemini AI**.
- Engineered a **custom NLP pipeline** that interprets user inputs and generates accurate, context-aware responses.
- Implemented **data validation and testing frameworks** to ensure reliable and accurate interactions.

Manchester United Possession Analysis | Python, Pandas, Matplotlib, NumPy

November 2025

- Performed multi-season analysis of Manchester United's possession metrics from 2019–2026 using **Python** and **Pandas**.
- Built **visualizations** with **Matplotlib** to identify tactical patterns and long-term performance shifts.
- Produced actionable insights and **authored a data-driven article** comparing season-over-season possession strategies.

CineMatch: AI Movie Recommendation Selector | TypeScript, Next.js, Gemini AI

October 2025

- Developed an interactive movie browsing platform using **Next.js** with dynamic routing and optimized UI rendering.
- Integrated **external APIs** to enable real-time search, filtering, and personalized recommendation features.
- Built an **AI-powered chatbot** using **Google Gemini** to deliver movie recommendations and enhance user experience.

Technical Skills

Programming Languages: Python, Java, SQL, JavaScript, C, HTML, CSS

Frameworks: Flask, React, Next.js, spaCy

Data & ML: Power BI, Pandas, NumPy, Matplotlib, NLP, LLMs

Tools: GitHub, Excel, Power Automate, Visio, Microsoft Office, Co-Pilot

CERTIFICATIONS AND ACCOMPLISHMENTS

Certificate in Business, Smith School of Business: Concurrent studies in finance, accounting, marketing, and strategy.

French Immersion Certificate: Bilingual (French & English).

Ontario Scholar: Graduated with Honours, Honour Roll all 4 years.