

Feras Mahmood

GenAI and ML Developer

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SKILLS

- Full-Stack Development (Python/JS) & ML Integration
- Scalable Data Pipeline Architecture (ETL/ELT)
- GenAI Architecture and App Development
- Containerization & Orchestration (Docker/K8s)
- Cloud Computing & IAC (AWS/GCP/Azure)
- Model and Data Monitoring (Grafana/Prometheus/Tempo)

EXPERIENCE

Sheridan College

ML Developer/Research Assistant

Oct 2025 – PRESENT

Oakville, Ontario

- **Platform & Data Governance:** Architected and governed highly scalable data schemas, ingestion pipelines, and automated validation workflows, specifically supporting productionized RAG Agents and sophisticated NLP systems.
- **CI/CD & Reproducibility (Model Lifecycle):** Operationalized the end-to-end MLOps lifecycle by architecting Databricks workflows and MLflow pipelines that automate feature engineering, model registration, and continuous evaluation for high reproducibility.
- **High-Volume Production Operations:** Managed the deployment and scaling of high-impact ML services using Spark for distributed processing and containerized infrastructure, supporting 20,000+ active users with 99.9% uptime and governed model serving.
- **Cross-Functional Project Lead:** Collaborated with designers and developers, defining operational requirements and implementing best practices to ensure models, vector stores, and data flows were inherently scalable, maintainable, and cost-efficient in production environments.

Paradigm Electronics Inc.

May 2024 – Aug 2025

Data Analyst

Mississauga, ON

- **Data Pipeline Optimization & Automation:** Engineered and scaled robust ETL pipelines and complex SQL transformations using Apache Airflow, resulting in the automated daily, Month-to-Date (MTD), and Year-to-Date (YTD) reporting for Global sales operations.
- **Business Intelligence & Financial Impact:** Developed and deployed key performance indicator (KPI) dashboards for Finance and Sales teams, incorporating automated anomaly detection that directly led to the recovery of \$15,000 CAD in misplaced costs.
- **Strategic Data Analysis & Revenue Growth:** Conducted deep-dive data analysis on product quality metrics and sales performance indicators, providing actionable insights that fueled a documented 20% revenue growth for the organization in Q2, 2024.

PROJECTS

HR GenAI Application | *Next.js, React, TypeScript, LangChain, Azure*

- Built an AI-powered ATS using LangGraph and Llama 3 to automate resume parsing, candidate scoring, and RAG-based evaluation.
- Implemented autonomous research agents with Puppeteer to verify candidate claims via GitHub and portfolio analysis.
- Deployed event-driven, observable infrastructure using Terraform on Azure Container Apps using MongoDB change streams and GitHub Actions, where I monitored model performance using Tempo, Prometheus and Grafana.

Workforce Productivity ML Pipeline & Insights | *Databricks, Spark, Delta Lake, MLflow, Unity Catalog*

- Engineered a production-grade MLOps pipeline on **Databricks** using a **Delta Lake** Medallion Architecture and Liquid Clustering to optimize high-volume data processing and query performance.
- Developed and operationalized predictive models using **SparkML** and **MLflow**, automating the full lifecycle from experiment tracking to model versioning and reproducible deployment.
- Implemented **Unity Catalog** for fine-grained governance and integrated with **Power BI** to surface executive insights, identifying burnout risks and high-potential talent.

EDUCATION

Sheridan College

Bachelor's Degree in CS (Data Analytics)

Sep 2021 – Apr 2026

Oakville, ON

- GPA: 3.1

- Achievements: Secured First Place in Capstone Showcase, recognized for innovation, technical excellence, and real-world impact in AI-powered sports analytics