

Aleem Khan, PMP

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EDUCATION

University of Waterloo MMSc. Master of Management Sciences (Engineering) Specialization: Data Analytics and Machine Learning Coursework: Big Data Analytics, Quantitative Data Analytics, Operational Research, Consulting	Sep 2023 – Aug 2024 Waterloo, ON, Canada
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TECHNICAL SKILLS

Programming Languages: C++, Python, SQL, R, DAX, VBA
Frameworks & Libraries: PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, PySpark, LangGraph
Data Visualization: Power BI, Looker, Tableau
Cloud Technologies: Snowflake, GCP, Azure, BigQuery, Synapse, DBT, Apache Airflow, Apache Spark
Competencies: Agile, Waterfall, Project Management, Stakeholder Engagement, Relational Databases, Data Engineering, Vector Databases, Data Analysis, Applied Machine Learning, Cybersecurity, Agentic AI, NLP, CI/CD, LLMs
Other: Microsoft Office 365, Word, Excel, PowerPoint, Dataiku, Git, GitHub, Docker, Salesforce.com, Cursor

WORK EXPERIENCE

Data Scientist Guardian Group (life & health insurance)	Dec 2024 – Aug 2025
<ul style="list-style-type: none">Deployed ML models on the Google Cloud Platform (GCP) to detect fraud in the life and health insurance industriesDelivered and maintained business intelligence (BI) dashboards in Power BI for tracking business profitabilityImplemented scalable data pipelines using Snowflake and SQL to transform over 1 billion customer transactions into analytics ready datasets for financial reportingConducted business acceptance testing (BAT) of all BI solutions and ensured alignment with user requirementsIntegrated LLMs into data pipelines to clean and format free-form text data, improving data accuracy	

Data Analyst Village Book Builders Inc. (EdTech startup)	Aug 2021 – Aug 2023
<ul style="list-style-type: none">Performed A/B testing on marketing designs to increase user engagement and drive revenue growthBuilt ETL pipelines with Python and Airflow to automate daily customer data processing jobsCollaborated with stakeholders to gather requirements and created technical specifications for project developmentCreated business intelligence visualizations in Looker, outlining KPIs in clear, non-technical formats and presenting actionable business insights to the executive teamImplemented the company's cloud-based data infrastructure, incorporating PostgreSQL databases to securely store and manage customer information	

PROJECTS

Power Generation Forecasting AI Agent (GitHub) Python, Apache Airflow, LangGraph, Llama 3.1	
<ul style="list-style-type: none">Built an autonomous AI agent using LangGraph and Llama 3.1 to forecast Ontario electricity demandDeveloped 15+ tools for time series forecasting (Prophet/ARIMA) and integrated PostgreSQL for real-time analysis	
Wildfire Prediction (GitHub) Python, PyTorch, Scikit-Learn	
<ul style="list-style-type: none">Developed spatiotemporal deep learning models (3D U-Net, LSTM) to predict wildfire spread with 96.16% precision using 34 environmental variables from Mediterranean wildfire datasetsBuilt end-to-end ML pipeline with feature engineering, model training, and real-time visualization of wildfire predictions	
Ontario Grid Optimization (GitHub) Python, Pyomo, HiGHS, NumPy, Matplotlib	
<ul style="list-style-type: none">Optimized Ontario's power plant mix to meet 75% growth while minimizing costs and emissions through 2045Built multi-objective optimization model using Pyomo and HiGHS solver to generate cost-emissions trade-offs	

CERTIFICATIONS

Project Management Professional (PMP)	Jul 2024
Technology Governance and Policy	Aug 2024
Machine Learning in Enterprise	Mar 2025