

Mamdouh Jaber

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📍 Montreal, Quebec

Experience

Aylo, Senior Business Intelligence Analyst	Jan. 2025 – Present
<ul style="list-style-type: none">Enhanced and packaged existing advanced payments routing models into a SaaS product for external clients, leading to a projected \$100,000 increase in annual revenue.Leading the research and development of agentic AI tools to address repetitive ad-hoc tasks.	
Business Intelligence Analyst	Jan. 2023 – Dec. 2024
<ul style="list-style-type: none">Implemented process improvement techniques to enhance rebill recovery services by identifying and eliminating high failure rate transactions, leading to a reduction in overall processing fees.Applied statistical methodologies to develop rebill recovery strategies designed to identify failed re-bill revenue that can be recovered, resulting in a \$35,000 increase in monthly revenue.Developed a mechanistic model for payments processing designed to select the best acquiring bank while balance performance, fraud and volume constraints resulting in a 7% increase in success rates and significant reduction in manual intervention.Validated key performance assumptions of payments routing through A/B testing experiments, leveraging statistical methodologies to analyze results.	
Le Wagon, Data Science and Artificial Intelligence Teacher	Aug. 2022 – Present
<ul style="list-style-type: none">Conducted comprehensive lectures and hands-on workshops on deep learning and large language models (LLMs), guiding students in developing and deploying models on cloud platforms.Mentored the students on using open-source tools such as LangChain, MetaGPT, and Hugging Face models to build practical and cost-efficient LLM applications.Demonstrated exceptional dedication to student success, resulting in 95% positive course reviews.	
Acrylic Robotics, Machine Learning Engineer	July 2022 – Jan. 2023
<ul style="list-style-type: none">Led the research and development of neural network architectures for applications in neural style transfer, stroke-based rendering, depth-based image segmentation and object detection, with the goal of using robots to make paintings.Managed the deployment of machine learning models on AWS, ensuring optimal cost and performance by utilizing EC2 instances, CodeCommit repositories, S3 buckets, ECR, and SageMaker instances.	

Education

McGill University, <i>Professional Development Certificate</i> in Applied Artificial Intelligence	Sept. 2022 – Jan. 2024
Le Wagon, <i>Professional Development Certificate</i> in Data Science and Artificial Intelligence	April 2022 – June 2022
McGill University, <i>Master of Engineering</i> in Civil Engineering and Applied Mechanics <ul style="list-style-type: none">Thesis: Purple Bacteria for Wastewater Treatment and Resource Recovery (Link)	Sept. 2017 – June 2020
McGill University, <i>Bachelor of Engineering</i> in Civil Engineering and Applied Mechanics <ul style="list-style-type: none">Minor in Environmental Engineering	Sept. 2013 – May 2017

Certifications

Microsoft, Azure Data Scientist Associate (Credential)	Nov. 2024
CSSC, Six Sigma Black Belt	Oct. 2024
INFORMS, Certified Analytics Professional (CAP) (Credential)	Aug. 2024
Coursera, Generative Adversarial Networks (GANs) Specialization (Credential)	Sept. 2022