

ANDREW GIRGIS

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EDUCATION

University of Waterloo <i>MA Economics; Graduate Diploma in Computational Data Analytics</i>	Apr 2025 (Expected) GPA: 82%
Brock University <i>BA Economics (Honours), Minor in Applied Computing</i>	Apr 2023 GPA: 84%

EXPERIENCE

National Research Council Canada <i>Junior Analyst</i> <ul style="list-style-type: none">Built AI chatbot to filter unqualified IRAP client inquiries, improving service efficiency.Forecasted travel expenditures and created strategic budget report.Visualized internal survey results in PowerBI to present trends to senior leadership.	Apr 2024 – Dec 2024 Oakville, ON
Centre for Finance, Technology and Entrepreneurship <i>FinTech Analyst</i> <ul style="list-style-type: none">Evaluated AI tools and documented use cases for leadership.Produced instructional video content, merging communication and technical skills.	Feb 2025 – Present Remote
TechPlace <i>Business Development Intern</i> <ul style="list-style-type: none">Led CRM implementation and reduced event booking time by 30%.Automated email onboarding workflows using Power Automate.Authored user manuals and analyzed web traffic via Google Analytics.	Jun 2023 – Oct 2023 Burlington, ON

PROJECTS

Stock Forecasting with VAR-GARCH Python, econometrics <ul style="list-style-type: none">Built forecasting models for BEV stocks using VAR and GARCH; assessed volatility using MAPE.Integrated external regressors like lithium and gasoline prices.	2023
Sentiment Analysis on Article Comments Python, NLP, Gephi <ul style="list-style-type: none">Applied Jaccard, Semantic Similarity, and VADER sentiment scoring.Visualized positive/negative comment networks using Gephi.	2023
Customer Segmentation using K-Means Python, sklearn <ul style="list-style-type: none">Segmented mall customers into behavioral clusters for targeted marketing.	2023
Predictive Modeling on Academic Behavior Python, Scikit-learn, GPBoost <ul style="list-style-type: none">Used 11 years of university platform data to model GPA from late-night usage behavior.Developed and evaluated SVR, XGBoost, and Neural Net models; presented findings to policy team.	2023

LEADERSHIP & AWARDS

VP, UW Economics Society <i>University of Waterloo</i>	Sep 2023 – Present Waterloo, ON
Student Ambassador, NRC Canada <i>Organized events and surveys for NRC student programming.</i>	May 2024 – Aug 2024 Ottawa, ON
Datathons <i>Rotman Datathon — CxC Hackathon</i>	2025 Predictive analytics and ML challenges under time pressure.
Dean's Honour List <i>Brock University</i>	2021 – 2023 Awarded for academic excellence in Economics (Top percentile)

TECHNICAL SKILLS

Languages: Python, R, SQL, JavaScript, HTML, LaTeX
Tools: PowerBI, Tableau, Excel, VS Code, Databricks, Gephi, Google Analytics
Libraries: scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, VADER
Concepts: Forecasting, Regression, NLP, Clustering, Dashboarding, Time Series Modeling