Alexandre Ly

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Data & Reporting Analyst | Power BI, Tableau, SQL, R, Python | MSc Finance (STEM)

Finance and IT data analyst, 2+ years across a major utility (Hydro-Québec), banking-platform implementation and operations. Builds SQL views, Tableau dashboards and Python models that turn raw data into KPIs and management recommendations.

Education

Hult International Business School | Master of Science in Finance (STEM) | Boston, MA 2026
- Coursework: Data Extraction & Visualization, Machine Learning, AI Trends in Finance, Cost & Managerial Analysis

HEC Montréal | Double Bachelor's, Finance/Accounting and Information Technology | Montréal, QC 2024

Experience

National Bank Financial | Montréal, QC, Canada 2025
Banking Platform Implementation Specialist
- Migrated 100+ enterprise clients from Canadian Western Bank to National Bank, configuring accounts and user access
- Presented platform demos to enterprise client stakeholders; 98% of accounts went live with no post-migration fixes
- Coached 12 onboarding specialists to run client migrations independently within 2 weeks
- Maintained up-to-date records and relationships for 20+ active and past SME partner contracts across Canada

Classic Woodwork Inc. | Sainte-Thérèse, QC, Canada 2024 - 2025
Operations Solutions Analyst
- Analyzed production data to identify 30 bottlenecks and trace defects to their root causes, reducing waste by 5%
- Delivered two continuous improvement projects, turning data analysis into process changes adopted on the floor
- Raised production quality and compliance pass rate to 97%, meeting Architectural Woodwork Institute (AWI) standards

Hydro-Québec | Montréal, QC, Canada 2023 - 2024
Cybersecurity Solutions Coordinator
- Standardized audit reporting for IT security reviews: zero audit findings and 10% less evidence preparation time
- Ran Identity & Access Management (IAM) and compliance audits for 40 users; secured 10 high-risk accounts with PAM
- Coordinated with 3 cross-functional teams, including auditors and IT security, to validate evidence and meet deliverables

Projects

Client Portfolio Analytics: SQL & Tableau Dashboard | Hult, Data Extraction & Visualization
- Joined 5 tables into a reusable SQL view; used window functions for 12/24/36-month returns, volatility and Sharpe ratios
- Built a 4-view Tableau dashboard and management report flagging 61% concentration in 4 holdings; advised a 15% trim

GRID / OHIO: Data-Center Power Contract & Tariff Model | Sole author
- Built an hourly Python cost-to-serve model comparing fixed, index and block-plus-index contracts under AEP Ohio's tariff
- Showed a 70 MW fixed block cuts a +30% gas-price shock from $3.75M to $0.83M a year; published as a live interactive site

Dominion Energy Virginia Data-Center Load Forecast | Independent research
- Cleaned 7 years of EIA-930 hourly load and weather data and a 46-project pipeline for a Python Monte Carlo forecast
- Reached 5.05% holdout MAPE (vs 14.33% benchmark); projected $83.4B of capital and a +10.1% rate effect by 2035

Gas Offer Planner: Natural Gas Pricing Tool | Independent research
- Built a web tool pricing commercial gas offers from weather-adjusted demand, Henry Hub and basis, and supplier costs
- Added a ratio-based customer credit screen and automated PDF outputs: a customer proposal and an internal financial review

Relay Pulse: KPI Dashboard & Anomaly Alerts | Team project
- Designed a 3-KPI dashboard and alerts routing anomalies to owners; prototype cut signal-to-action from 11 days to 14 hours

Apprentice Chef: Customer Revenue & Cross-Sell Models | Hult, Machine Learning
- Modeled 1,946 customers with stacked ML ensembles (GBM, KNN, Lasso): 0.726 cross-sell AUC, 0.777 revenue R^2

Awards

1st Place, Personal Agent Hackathon, NYU Tandon: Coverage Brain, a 4-agent AI tool that flags insurance coverage gaps
2nd Place, Ethical Tech CoLab Hackathon, Microsoft Research: Mineral Trace, a supply-chain risk explorer

Skills & Certifications

BI & Reporting: Microsoft Power BI (DAX), Tableau, Excel, PowerPoint, Dashboards, KPI Reporting, Data Visualization
Data & ETL: SQL (PostgreSQL, joins, window functions, query design, ETL), R, Python (pandas, statsmodels, scikit-learn), AWS
Analytics: Forecasting, Regression, Machine Learning, Monte Carlo Simulation, Contract & Pricing Analysis, Root Cause
Certifications: Google Data Analytics; Google Cybersecurity Certificate
Affiliations & Languages: Society of Petroleum Engineers (SPE), Young Professionals; English, French, Vietnamese (native)