Alexis Ng

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Relevant Experience

Senior AML Data Analyst
Aug '24 - Present
BMO Financial Group – Toronto, ON

- Developed an automation script to insert suspicious transaction report (STR) case data into Netezza, improving data processing efficiency
- Built a Streamlit dashboard for investigators and leadership to analyze trends and query specific STR case data for better decision-making
- Automated daily reports to track the number of submitted, accepted and rejected STRs, providing key insights into reporting trends
- Developed a VBA-based tool to conduct efficient adverse media searches.in AML
- Implemented an alert system for reporting errors in STRs

Technology Research Analyst
May '21 – Aug '24
BMO Financial Group – Toronto, ON

- Implemented a web scraping script incorporating NLP techniques for data ingestion, processing, and filtering to monitor key tech trends – improving the efficiency of daily tech news monitoring by 96%.
- Conducted exploratory data analysis and cleaning/preprocessing tasks on a carbon footprint dataset, priming it for machine learning use-cases like forecasting and anomaly detection.
- Led a development project utilizing generative AI concepts (AI agents) and prompt engineering to create a personalized news aggregator web application.
- Created and maintained an interactive financial report dashboard providing comparative visual insights into the performance of Canada's top five banks on a quarterly basis.
- Collaborated with cross-functional teams (BAs & data scientists) to utilize machine learning on a dataset of 100k+ employee records and 111k+ software installation requests to create employee onboarding personas – leading to an 85% reduction in new employee onboarding time.

Electrical Engineering Intern
May '19 – Aug '20
Ministry of Transportation Ontario – Toronto, ON

- Completed lighting calculations and wire diagrams using ArcGIS and AutoCAD for the replacement of damaged high mast poles.
- Conducted lighting calculations for several retrofit projects, optimizing lighting with a transition from 4000K HPS conventional fixtures to 3000K LED fixtures, improving luminance and reducing costs.
- Supported engineers in the policy development of the accessible pedestrian signal standard through competitive research and analysis.

Education

McMaster University
Bachelor of Engineering – Electrical Engineering (Co-op)
Sept '16 – Apr '21
Hamilton, ON

Skills

Tools and Software
Python, SQL (Netezza, Postgres, MySQL), MATLAB, Power BI, Tableau, JIRA, ArcGIS, AutoCAD

Libraries & Frameworks
Pandas, NumPy, Matplotlib, Beautiful Soup, FeedParser, Seaborn, Streamlit, Scikit-learn, NLTK, Flask

Hard Skills & Techniques
Data Visualization, Extract, Transform, Load (ETL), Data Modeling, Data Warehousing, Automation, Agile/Scrum

Certificates

AWS Certified Cloud Practitioner
Issued by Amazon Web Services