

WORK EXPERIENCE

V.J. Pharmaceuticals

September, 2023 – April, 2024

Data Analyst

- **Data Collection and Analyzation:** Collected data on customers and medication usage to identify trends and insights, driving strategic decision-making for **inventory management** and sales forecasting.
- **Dashboard and SQL Usage:** Developed and maintained dashboards and reports using SQL and Tableau, improving data visibility and accessibility for the management team.
- **Profit Savings:** Analysis resulted in a better picture on which meds to keep in stock and at what quantities, resulting in 5% fewer medications expiring over 8 months and 11% less spent on inventory per month.

Toronto Metropolitan University

February, 2025 – May, 2025

Research Assistant

- **Collaborative Research:** Worked with faculty, graduate students, and team members on shared data science projects.
- **Machine Learning:** Assisted with basic ML models such as regression, classification, or clustering using scikit-learn or similar libraries.
- **Version Control (Git/GitHub):** Collaborated with team members using Git for code management and project tracking.
- **Python (pandas, NumPy, scikit-learn):** Used for data wrangling, modeling, and automation of analytical tasks.
- **SQL:** Queried structured databases for data extraction, transformation, and reporting.

Edge Imaging

August, 2025 – Present

Data Assistant

- **Data Entry and Preprocessing:** Worked with raw data provided directly from various schools. Processed data to a standard format according to policy and uploaded to the company database.
- **High-Stress Environment:** Busy season has tasks coming in nonstop, thus using time efficiently to complete tasks at a fast pace while also minimizing any mistakes that would slow down work for those downstream from us was essential.
- **Workflow Optimization:** After learning workflow I was able to offer several suggestions and even wrote up a custom script for the team on my downtime that reduced the time required on repetitive tasks. This resulted in an efficiency increase of ~100%, oftentimes for larger tasks resulting in less than half the time needed to complete with a lower risk of mistakes due to automation.

EDUCATION

University of Waterloo

Biomedical Science - BSc

September, 2016 – June, 2021

Toronto Metropolitan University

Honours Computer Science (4th Year) - BSc (Current GPA: 4.00)

September, 2022 – Present

PROJECTS

Text Generation with RNNs in PyTorch

Created a text generation model using PyTorch, capable of producing coherent sequences of text from a trained dataset (e.g., books, songs, poetry, etc). Followed a planned approach with the following steps in order: Preprocessing, Designing the Neural Network Architecture, Training the Model, and Text Generation. After completion, the code was iteratively improved in order to increase precision and reduce time/spatial complexity.

Chatbot with Seq2Seq and Attention Mechanism in PyTorch

Built a conversational AI chatbot using a Seq2Seq model with an attention mechanism in PyTorch. Preprocessed a dialogue dataset to create conversational pairs and trained the model to generate contextually appropriate responses. Implemented teacher forcing for efficient training and fine-tuned hyperparameters for improved dialogue coherence. Enhanced performance by integrating a dynamic attention mechanism for more focused responses, achieving robust conversational outputs.

GPT-based Text Summarization

Developed a custom text summarization tool using a fine-tuned GPT model in PyTorch. Leveraged transfer learning on large-scale news and article datasets to generate concise, human-like summaries of lengthy texts. Implemented a preprocessing pipeline to clean and tokenize input data, and integrated beam search and temperature-controlled decoding to optimise the quality and relevance of the generated summaries. Achieved a balance between extractive and abstractive summarization, improving readability and information retention.