

Joseph Lim

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TECHNICAL SKILLS

Programming Languages: Python (Pandas, NumPy, PySpark Matplotlib, Seaborn), SQL (MySQL, PostgreSQL, MS SQL)

Machine/Deep Learning: Scikit-Learn, XGBoost, TensorFlow, Keras, PyTorch

Data Engineering/Analytics: Azure Databricks, BigQuery, Prefect, Airflow, MLflow, UiPath, Tableau, Power BI, Looker

EXPERIENCE

Data Scientist | PepsiCo

Sept 2023 – Dec 2023 | *Mississauga, ON*

- Spearheaded a national store segmentation project for Quaker, employing PCA and K-Means Clustering on demographics data to effectively cluster 3000+ Canadian stores, identifying opportunities to optimize retail operations across 7 product categories
- Commercialized a ML project with senior data scientists by building 10+ interactive Power BI dashboards linked to model outputs in Delta Lake and updated via scheduled notebooks in Databricks, providing real-time shopper insights to business stakeholders
- Conducted comprehensive data analysis on over 1 billion rows of POS sales and demographics data using SQL, Pandas, and PySpark, driving strategic execution recommendations for the field team in preparation for a new Frito-Lay product launch
- Developed Ridge Regression models to forecast the sales performance of non-existing store-product combinations across 4 competitor product lines, thereby generating a prioritized list of 1000+ high-potential stores to target for competitive market entry
- Identified and resolved over 5 critical data errors across the store master, sales and demographics datasets, significantly improving their quality for future ML projects

Data Analyst/Associate Producer | Zynga

Jan 2023 – Apr 2023 | *Toronto, ON*

- Developed SQL queries in MS SQL and used Python libraries (Pandas, NumPy) to streamline data collection and analysis on team KPIs, increasing the efficiency of processes by more than 80%
- Built interactive reports and dashboards in Looker to equip 10+ cross-functional agile teams with valuable insights for data-driven improvements to their sprint performances
- Analyzed project data using SQL by generating relevant statistics on resource availabilities and project durations to create project roadmaps, resulting in a 50% increase in project/OKR tracking efficiency for teams
- Collaborated with the FinOps team to create 10+ interactive Tableau dashboards that visualize resource management trends and establish resource forecasting, enabling data-driven decisions in resource allocation across the organization

Junior Product Manager | Front Rush, NCSA, Zcruit

May 2022 – Aug 2022 | *Chicago, IL*

- Performed data visualization and analysis across 3 products using Heap by defining KPIs and usage metrics, generating insights on 10,000+ daily users to aid in product decisions and drive improvements in features/functionality
- Successfully led a feature improvement project for Zcruit by effectively translating a product plan into user stories for engineers and designers, resulting in a 25% increase in UX measures
- Leveraged insights from analyzing 300+ feedback tickets submitted by NCSA customers to identify key trends and plan for future OKRs, fostering a more targeted approach to NCSA's product development

Junior Product Manager | Front Rush

Sept 2021 – Dec 2021 | *Chicago, IL*

- Composed 50+ user stories in JIRA related to the development and implementation of new features for Front Rush's products, resulting in increased usage by 9,500+ teams and 30,000+ coaches
- Conducted 20+ interviews with coaches to gain in-depth knowledge of athletic department processes and identify specific needs across various schools, helping the product team to optimize user experience and improve product functionality

PROJECTS

K-pop Song Recommender | Python (Pandas, NumPy, Spotipy)

Dec 2023 | *Toronto, ON*

- Created a data pipeline using a Spotify API to extract and transform features of songs from multiple K-pop artists, preparing the dataset for efficient downstream analysis
- Developed a Content-Based Recommendation System for K-pop songs, utilizing cosine similarity to calculate similarity scores and suggest top song recommendations to users

NBA Data Analysis | Python (PyTorch, Pandas, NumPy), SQL, Looker

Apr 2023 | *Toronto, ON*

- Built an LSTM model using PyTorch that forecasts future NBA season averages using historical averages from the past 40 years
- Developed SQL queries in MS SQL to explore player statistics extracted from an NBA API and created a player dashboard on Looker, highlighting key performance metrics that can be used for game predictions

EDUCATION

University of Waterloo | B.A.Sc. Systems Design Engineering

Sept 2020 – Present | *Waterloo, ON*

- Relevant Coursework: Data Structures & Algorithms, Probability and Statistics, Machine Learning, Applied Linear Algebra
- Cumulative GPA: 3.90/4.00

DeepLearning.AI | Machine Learning Specialization

Mar 2023 – Apr 2023 | *Toronto, ON*

- Courses: Supervised Machine Learning – Regression and Classification, Advanced Learning Algorithms, Unsupervised Learning – Recommenders – Reinforcement Learning
- Projects: Linear/Logistic Regression, Neural Networks, Decision Trees, K-Means Clustering, Anomaly Detection