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Professional Experience

Data Scientist 2021

CITY OF TORONTO - RESEARCH AND ANALYTICS TEAM

- Lead the design and development process of analytical and visualization dashboards in **Tableau** which **reduced** the frequency of ad-hoc data requests on our team by **80%**. Dashboards are currently being used by city planners, managers, and directors on a daily basis
- Took the lead on analyzing cell phone usage data in Python to identify changes in park usage in the city due to the onset of the COVID-19
 pandemic
- Presented analysis findings to department directors and walked them through recommended follow-up action items to take advantage of the findings. Received heavy interest in furthering this work and others with future expansions to the data set

Software Engineer 2020

DOXIM SOLUTIONS - RESEARCH AND DEVELOPMENT TEAM

- Designed and implemented a C#-based data **pipeline** to connect to an external third-party database, make transformations, and feed it into the internal database
- · Conducted analysis on inefficient coding practices and presented findings to encourage a change to a more robust system
- Created pattern recognition software to streamline the conversion of legacy PowerShell scripts into concise and repeatable C# components
- Queried credit union user data from internal database for analysis using SQL

Projects_

Cryptocurrency React Dashboard

Self Project

- Created a React dashboard application to display comprehensive information about different cryptocurrencies
- Fetched cryptocurrency data from a REST endpoint using Redux toolkit. Data included historical pricing, daily volume, news articles, exchanges, and more
- Application was made to be compatible on both mobile devices and desktop computers with varying display sizes. Utilized design components from **Ant Design** to achieve modernized look and feel

Toronto Real Estate Analytics Dashboard

Self Projec

- Created a real estate dashboard using **Plotly** to visualize trends in housing prices in Toronto. Data can be aggregated based on location (wards and neighborhoods), size of property (sqft), and amenities (bed + bath)
- Data was scraped from various real estate listing websites using the **Selenium** and **BeautifulSoup** packages in **Python**
- Cleaned and linked data to geospatial layers using GeoPandas and Shapely

Generating Game Data Using REST API

Self Project

- Built **Python application** to auto-generate rating reports for board games, by obtaining reviews and statistics from BoardGameGeek's API and feeding the data through a **Natural Language Processing** model
- · Utilized application to identify common trends and key qualities in board game popularity

Sentiment Analysis Using Deep Learning Models

Academic Project

- Applied NLP methods to calculate sentiment scores of over 200K product reviews from IndieGoGo and KickStarter, then used resulting scores
 to model and assess product success
- Constructed multiple Neural Network models in TensorFlow using FastText and GloVe embeddings
- Best model could be trained in less than 5 minutes and achieve AUC scores greater than 90%

Education _

Western University

London, ON, Canada

MASTERS IN DATA ANALYTICS

2019 - 2020

 Relevant Courses: Data Consulting, Unstructured Data, Business Skills for Data Scientists, Artificial Intelligence II, Databases, Statistical Modelling, Generalized Linear Models, Banking Analytics

B.M.Sc in Biochemistry of Infection and Immunity

2015 - 2019

• Dean's Honour List (2015-2019)

Technical Skills ___

Languages Python · JavaScript · C# · Java · Solidity

Technologies TensorFlow · ElasticSearch · NLTK · React · NodeJS · Jenkins · Git · LaTex · Jira