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SUMMARY

Multi-talented Data Scientist experienced in working with large datasets, generating business insights, and providing prescriptive analytics for addressing complex business concerns. Proficient in distribution, predictive and hypothetical modeling. Worked on machine learning projects with CIBC, Unilever Canada, Nestle Canada and Loblaw Companies Limited. Dedicated to skill development and bringing value to dynamic teams.

WORK EXPERIENCE

Data Science Analyst at Loblaw Companies Limited 09/2021 – Present

(Technologies/Software used – Git, GitLab, Google Cloud Platform, JupyterHub, Python3, SQL, Teradata, JIRA, Confluence, Google data studio)

- Implemented a boosted tree classifier on Big Query ML for predicting patient churn with an average accuracy of 65%.
- Initiated and implemented a patient likelihood classification model for predicting the most likely patients to respond to a recommendation notification with about 70% testing accuracy.
- Researched and presented concepts on the mathematics of deep learning and recommender systems to my team members on a biweekly basis.

Data Science Fellow at SharpestMinds 04/2021 – 08/2021

(Technologies/Software used – Git, Github, Python3, Flask, Heroku, BeautifulSoup, Asana, Spacy, NLTK)

- Built a full-stack machine learning web application that classifies Amazon product reviews using natural language processing. The product helps customers clarify product selection based on keywords discussed in product reviews.
- Created an original dataset by building a data pipeline that scrapes Amazon product reviews using beautiful soup and performs data cleaning to prepare the dataset for topic modeling.
- Applied natural language processing topic modeling using a latent dirichlet allocation model in sk-learn to identify keywords for each product's review.
- Deployed model as a web-app using Python Flask and Heroku. The published project is available here: bit.ly/topic_modeling_lda

Machine Learning Team Lead at University of Toronto 09/2016 – 08/2021

(Technologies/Software used – Python3, Scipy, Seaborn, sk-learn, Tensorflow, PyTorch, Pyspark)

- Collected user and business requirements and put together detailed project plans.
- Developed random forest models in helping Nestle Canada in underpayment claims classification.
- Developed a local heuristic search model for inventory allocation for Nestle Canada with potential reduction in penalty costs up to $200,000 monthly.
- Developed demand forecasting models using multivariate regression models, generative adversarial networks and Bayesian LSTMs using keras, sk-learn, Tensorflow and PyTorch.

Machine Learning Engineer at CIBC 05/2015 - 06/2015

(Technologies/Software used – Python3, Selenium, BeautifulSoup)

- Initiated an unsupervised learning system for anomaly detections in managing role-based access control using hierarchical clustering of the jaccard distances.
- Implemented python codes using selenium package for web scraping of employee profiles.

EDUCATION

Doctor of Philosophy, Industrial Engineering, University of Toronto 08/2014 - 04/2022

- Applied lattice methods in the robust valuation of financial derivatives with uncertain parameters.

Relevant Skills: Probability, Statistics, Operations research, Research and Optimization.

Master of Engineering, Industrial Engineering, University of Benin 11/2009- 11/2010

Relevant Skills: Applied Statistics, Systems Engineering and Mathematical programming.

Bachelor of Engineering, Production Engineering, University of Benin 01/2004 - 11/2008

Relevant Skills: Computational Programming, MatLab, Linear Algebra, Vector Calculus, Differential Equations.

GPA: Best Graduating Student with a First-Class Honors CGPA 4.61/5.

SOCIETIES

Member, Canadian Operational Research Society.
Member, Toastmasters International.

Hobbies

- Playing chess
- Learning new technologies online
- Listening to good music
- Reading good books and writing books on personal development