REAZ ELIAS

Data Science | Analytics | Engineering
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PROFILE

Passionate about solving business problems using Data Science and Machine Learning. I systematically and creatively apply my skill-set to add tangible value to the team, the business, and the end-user. I am committed to continuous learning and consistently seek ways to improve.

SKILL

- Python programming for Data Science. SQL for database querying and management including insert and update operations. Pandas, Matplotlib, Seaborn for Data Processing, Exploratory Analysis, and Visualization.
- Scikit-Learn for Machine Learning - Supervised learning (Regressions, Decision Tree, Random Forest, XGBoost for prediction and classification), Unsupervised Learning (KMeans clustering, PCA), and Deep Learning using NN.
- Model deployment using Github actions, Jenkins, streamlit.
- Probability and Statistics: Inferential Statistics, Hypothesis Testing.
- Collarabotive, Exchange viewpoint, Share support across diverse team members.

EXPERIENCE

Data Scientist, Pitstop, Toronto. SEPTEMBER 2020 - DECEMBER 2023

- Model building and deployment: Monitor a group of Engine and Exhaust related DTC (Diagnostic Trouble Code) occurred together in a vehicel and flag alert; Raise possible engine starting failure alert if a vehicle is parked for a specified period of time; Parsing VMRS (Vehicle Maintenance Reporting Standard) from DTC: detect/suggest possible VMRS from DTC description.
- Data Analysis: Clean, Process, Insert Service Records from various fleets into database; Analyze association or relevancy between Service Records and Fault Codes occurred before shop visits and prepare a contingency matrix; Verification/Quality assessment of various algorithm alerts; Pulling faultcode histories hitting API of the telematics providers; Retrieve data from AWS S3 bucket.

PROJECTS

- Worked on a data analysis project of Loblaw Company Limited (LCL) Canada, focusing on detecting temperature sensitive product sales across 61 stores in the province of Ontario, Canada.
- Predicting customer loyalty scores based on spending pattern, proximity to store, gender, and credit score.
- Customer segmentation based on shopping habits.
- Analyzed Great Lakes (Lake Michigan, Erie) fisheries data to detect relationships between fish biomass and total phosphorus in near-and-offshore water levels

PUBLISHED PAPERS

- Elias, R.S., Yuan, M., Wahab, M.I.M., and Patel, N. (2019). Quantifying saving and carbon emissions by upgrading residential furnaces in Canada, *Journal of Cleaner Production*, Vol. 211,pp. 1453-1462.
- Elias, R.S., Wahab, M.I.M., and Fang, L. (2018). Retrofitting carbon capture and storage to natural gas-fired power plants: A real-options approach, *Journal of Cleaner Production*, Vol. 192, pp. 722-734.