James Christian Oblea

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HIGHLIGHTS OF QUALIFICATIONS

- **Master's graduate** with over 1+ year of experience in visualizing company KPIs and directing business decisions using data.
- Experienced in building machine learning models to facilitate academic research – one of which was presented in the Alberta Children's Hospital Research Institute research symposium.
- **Languages & Frameworks**: Python, R, SQL (Postgres, MySQL), Java, JavaScript, HTML/CSS, Node.js, Flask, Django
- **Analysis Tools**: PowerBI, Tableau
- **Libraries**: pandas, NumPy, Matplotlib, Plotly, Seaborn, Sci-kit learn, Tensor Flow, Keras, PyTorch

EMPLOYMENT EXPERIENCE

Data Analyst Intern, TOSSA Sustainability (Calgary, AB)   *May 2024 – August 2024*

- Generated a historical database of employee wages and working hours across Alberta by extracting and processing over 2000 rows of data from 4 open government sources using Statistics Canada's API, web scraping tools, and GitHub Actions.
- Employed PowerBI to create 13 dynamic visualizations illustrating the comparative employment wages and working hours in different Alberta industry sectors and demographics to aid further analyses.

Business Analyst, VantEdge Logistics Inc. (Calgary, AB)   *June 2022 – June 2023*

- Established a new workflow system for business operations and enabled business success amidst declining resources.
- Liaison between operation and development teams of 20 people and managed the assignment of 30 weekly Microsoft DevOps tasks and tickets ensuring customer success.
- Deployed a successful customer relationship management tool in HubSpot to track business development and customer journey of over 20 clients.

Math Tutor, MathPro Learning Centre (Calgary, AB)   *February 2019 – November 2023*

- Educated and mentored over 50 students across different levels of school and significantly improved academic performance.
- Collaborated with management in establishing an online tutoring module to continue business operations during COVID.

EDUCATION

Master of Data Science and Analytics, University of Calgary (Calgary, AB)   *September 2023 – August 2024*

Bachelor of Science in Mathematics and Statistics, University of Calgary (Calgary, AB)   *September 2015 – May 2020*

Bachelor of Science in Psychology, University of Calgary (Calgary, AB)   *September 2015 – May 2020*

PROJECTS

Automating IELTS Essay Grading, Python   *May 2024*

- Extracted and vectorized 1400 IELTS essay responses and questions in preparation for model training.
- Built a Natural Language Processing XGBoost Regression model to predict essay scores with a mean square error of 0.70.

Simulating Late-Game Strategies in Basketball, Python   *March 2024 – April 2024*

- Extracted NBA play-by-play data from over 7000 games using Basketball Reference's API to fit probability distributions of random variables.
- Performed a Discrete Event Monte Carlo Simulation of late-game basketball possessions to test three different late-game strategies and determine the best strategy to win basketball games.