

James Mete

Canadian data scientist with international management experience

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EXPERIENCE

Sherbiny LLC.

Sep. 2017 – Present

Management Analyst

Al Khobar, Saudi Arabia

- Sherbiny is a leading manufacturer of industrial and energy solutions in Saudi Arabia. (sherbiny.com)
- Leading AI, machine learning, and data science initiatives to improve efficiency and effectiveness.
- Researching potential for net-zero solutions including solar, hydrogen, and nuclear energy solutions.
- Leading data analysis and preparing reports for C-level executives.
- Elected board secretary to the board of directors. Facilitate board meetings and reporting.
- Increased order forecast accuracy by 30% compared to traditional expertise-focused methods by utilizing a random forest machine learning model built in Python (Scikit-learn) and trained on order history data.
- Led project to implement automatic document processing system to automate 60% of orders utilizing OCR / Computer Vision. Initial deep learning models used Python (PyTorch) & Azure Form Recognizer APIs.
- Decreased time to produce technical spare parts quotations by 92% by integrating database lookup features.
- Project manager and core team member of Project Management Office. Projects include launching our new e-commerce platform (ejawda.com), implementing an ERP, and the construction of a new manufacturing facility.
- Increased Marketing output by 300%+ by optimizing production pipelines and implementing Kanban methodology.
- Awarded President's Circle Award (highest in the company) for outstanding performance.

Nescom LLC.

Jul. 2014 – Aug. 2017

Analyst

Jubail, Saudi Arabia

- Nescom is an industrial contractor and solutions provider in Saudi Arabia.
- Analysis, feasibility studies, & business plans of existing business units as well as future investment opportunities.
- Successfully crafted indoor vertical farming proposal approved by the Saudi Investment Bank.

PROJECTS

- **Analysis & Prediction of Dislikes on Youtube Data:** Developed a machine learning pipeline to process 1.46 billion Youtube JSON records and scraped comments to train a Random Forest to classify Youtube videos into negative, neutral, or positive with 82% accuracy and 80% F1 score to help users judge video quality.
- **Sentiment Analysis between Product Reviews and Social Media Platforms:** Collected, processed, and analyzed 51K Amazon Reviews, 148K Reddit comments, and 2.88 billion tweets to compare sentiment trends between each platform to check for biases, differences, and top influential features.
- **Predicting Text Difficulty:** Natural language processing task to classify the textual complexity of sentences to determine which sentences require simplification. Developed a pipeline involving feature engineering, KMeans, topic modeling, PCA, and a supervised transformer model. Achieved second-highest score on the private University of Michigan Kaggle leaderboard with an accuracy score of 77.6%.

EDUCATION

University of Michigan

May. 2022

Master of Applied Data Science

Ann Arbor, Michigan, USA

- 4.0 GPA
- Selected as an instructional aide for multiple courses, including Data Science Ethics, due to good performance.

Brock University

May. 2014

BA Honours

St. Catharines, Ontario, Canada

SKILLS & INTERESTS

- **Skills:** Python, Javascript, SQL, NoSQL (MongoDB), Scikit-learn, Numpy, Pandas, Matplotlib, PyTorch, TensorFlow, Spark, HTML, CSS, Power BI, Adobe Creative Suite, Office / GSuite, Excel / Sheets, Shell Scripts
- **Interests:** Data Science, Machine Learning, Deep Learning, Big Data, Energy, Climate, Sustainability, Optimization, Reinforcement Learning, Project Management, Kanban, Agile, Marketing, Water Purification and Desalination, Music, Gaming