FYSAL BEAUFERRIS

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Portfolio – fysal.dev

EDUCATION

BSc In Computer Science | Minor in Data Science

- **University of Calgary** | 2018-2024
- **Honors:** Jason Lang Scholarship, 2020

TECHNOLOGIES

Data Analysis and Visualization: PySpark, Machine Learning, R, Stata, Tableau, Excel, Power BI
Programming and Development: Java, Python, C#, Git, UML, JUnit
Database Management and Front-End Development: SQL, Relational Models, HTML, CSS, JavaScript, Figma, React

Related Courses: Database Management Systems I & II, Data Science Capstone, Computational Statistical Modelling, Data Structures, Algorithms and Their Analysis, Programming Paradigms, Human Computer Interaction I & II, Engineering Large Scale Analytics Systems

PROJECTS

Research Paper - Debt as a Socioeconomic Determinant of Cancer Incidence
April 2023 | Technologies: R Studio, Excel

- **Analyzed socioeconomic factors:** Investigated the relationship between debt, perceived life stress, and cancer incidence using regression models.
- **Statistical significance:** Found significant positive correlations between mortgage loans, consumer credit, and cancer incidence, validated by low p-values in linear and multiple regression analyses.
- **Data visualization and insights:** Utilized scatterplots and regression lines to identify trends and spikes, particularly around the 2008 Canadian recession, demonstrating the impact of economic downturns on health outcomes.
- **Novel research contribution:** Addressed an underexplored area in cancer research, highlighting the potential causal pathways linking socioeconomic stressors to cancer, and provided a robust statistical basis for further studies in this domain.

Scalable Data Analytics Project: Predicting NYC Taxi Trip Times
January 2024 | Technologies: Apache Spark, Python

- **Dataset and analysis:** Developed a predictive model for NYC taxi travel times using a 1.4 million-entry Kaggle dataset. Conducted thorough data inspection, validation, and outlier removal, analyzing key factors such as trip duration, distance, pickup hour, and day of the week.
- **Model development:** Built and refined a linear regression model with Apache Spark, achieving an RMSE of 257.739 seconds (approx. 4.3 minutes).
- **Impact and scalability**: Leveraged Apache Spark to process large datasets efficiently, demonstrating the model's scalability and practical application in real-world scenarios.

Machine Learning Research Project - Sarcasm Detection in Social Media Texts
April 2023 | Technologies: Python

- **Dataset and preprocessing:** Enhanced sarcasm detection using the Self-Annotated Reddit Corpus (SARC) dataset, introducing advanced preprocessing techniques and word embedding algorithms.
- **Model development**: Modified a hybrid model and applied Support Vector Classification and Random Forest Classifier for robust sarcasm detection.
- **Results and application**: Utilized Python libraries to automate sarcasm detection, contributing to improved accuracy in identifying sarcastic remarks in social media texts, with potential applications in sentiment analysis and content moderation.

WORK EXPERIENCE/ VOLUNTEERING

IKEA - Goods Flow | Full-Serve Handouts Associate
Calgary, AB | April 2019 - March 2023

- Management of booking, modification, return and cancellation of deliveries using in-house software.
- Responsible for logging and tracing of order movement between arrival and dispatch teams using excel and 3rd party shipment software.
- Actively working with inventory management systems to achieve stock accuracy and replenishment scheduling.

ADSS - University of Calgary Actuarial & Data Science Society | Junior Executive
Calgary, AB | Fall 2023

YYC DATACON 2024 Volunteer

CERTIFICATIONS

- LinkedIn Learning: **Data Science Foundations** | Aug 2023
- Microsoft: **Career Essentials in Data Analysis** | Sept 2023
- Codecademy: **Learn SQL Course** | Sept 2023