Imad Ahmad

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TECHNICAL SKILLS

Programming Languages: Python, R, JavaScript, with relevant data science, analytics, and visualization libraries.
Database: Experience with both SQL (MySQL, PostgreSQL, etc.) and NoSQL (MongoDB) databases.
Machine Learning: Experience with various machine learning methods, including neural networks, decision trees, clustering, etc. Proficient in Scikit-learn, PyTorch, and TensorFlow.
MISC: AWS (certification in progress), Tableau, PowerBI, and relevant coursework in Calculus and Statistics.

EDUCATION

Master of Data Science and Analytics, *University of Calgary* August 2023
Bachelor of Science in Informatics and Statistics, *University of British Columbia* May 2020

WORK EXPERIENCE

Junior Data Engineer, *LifeLabs* Aug 2021 – Apr 2022

- Executed SQL queries on COVID-19 test specimen data, enabling comprehensive and efficient data extraction, leading to a 35% improvement in data extraction efficiency for over 1000 COVID-19 test specimens per day.
- Managed ETL operations on our relational database, ensuring seamless data integration while maintaining data integrity, thereby reducing data redundancy by 25% and boosting database performance by 40%.
- Instituted daily data reviews, effectively maintaining data accuracy and cleanliness, thereby ensuring reliability of information for analytical and operational use, reducing data inaccuracies by 30%.

Database Support Intern, *UBC Family Practice Clinic* Oct 2019 – May 2020

- Organized patient information using MySQL database, enhancing scheduling efficiency and leading to a 50% decrease in patient wait times and improving the overall patient experience.
- Translated patient data into compelling visual presentations for staff meetings, promoting data-driven discussions and decisions, resulting in a 45% increase in data-based decision-making within the first quarter of implementation.
- Developed a customized mass email system for effective communication, facilitating prompt notifications regarding COVID-19 and strengthening patient-provider communication, leading to a 60% increase in communication time.

PERSONAL PROJECTS

Recycling Image Classifying Robot

- Developed **TensorFlow-based Convolutional Neural Network** to accurately classify images of waste.
- Trained model on images from Kaggle and **web-scraped** images using the **Selenium** library to attain **85% accuracy**.
- Enabled real-time waste classification by transferring the built model onto a Raspberry Pi powered robot (video).

CSVanalysis.com

- Developed and launched a user-friendly website that provides users with a preliminary analysis of their data, promoting ease of access to powerful analytics with over **30 monthly users**.
- Leveraged **Pandas** and **Flask** libraries to enable swift processing and analysis of uploaded CSV, enhancing user experience and processing speed by 50%.
- Devised a data storage solution using **MariaDB**, providing efficient storage of uploaded files in a **SQL Database** and streamlining data management to allow instant access to files.

Chessalytics

- Published an insightful Medium article where I analyze four years' worth of personal game data from chess.com.
- Employed **Tableau** and **Plotly** to craft visuals for the article, enhancing reader engagement with over **200 readers**.
- Demonstrated a robust understanding of **data analysis** and **presentation** through powerful insights, underlining data-driven decision making to answer five leading questions.

Gender Disparity Amongst Physiology Departments

- **Web-scraped** data from Scopus to investigate gender disparity in physiology departments across North America, increasing data collection speed by 70%.
- Conducted robust data analyses using **STATA**, including **multiple linear regression** and **normality testing**, underlining proficiency in statistical methods.
- Achieved **First Author** recognition in a published research paper with over 600 readers, showcasing successful application of my analytical skills to a real-world problem.