Saim Zafar

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Skills

- Languages: Python, R, SQL, C#, Java, JavaScript, HTML, CSS, DAX
- Frameworks: MongoDB, Apache Kafka, MySQL, SQLite, JSON, Microsoft SQL Server, Confluence
- Tools: Power BI, Power Automate, Docker, Kubernetes, Snowflake, JIRA, Jenkins
- Proficient in agile methodologies and software design life cycle

Education

University of Waterloo - Bachelor of Mathematics, GPA - 3.58

Jan 2021 - Present

- Pursuing a Double Major in Computational Mathematics and Statistics
- Awarded President's Scholarship of Distinction and President's Upper-Year Awards

Professional Experience

Business Analyst - Intact Labs, Toronto

Jan 2023 - Apr 2023

- Developed a code analysis pipeline to detect vulnerabilities and increase overall test coverage to 90%
- Assisted QA Lead in developing and deploying a testing strategy to evaluate 87% of a newly designed insurance model
- Documented legacy ETL pipeline and MongoDB document stores for improved productivity and knowledge transfer

Business Analyst – *RLB LLP, Guelph*

May 2022 - Sep 2022

- Created multiple business dashboards and optimized time and data efficiency by 48% with a new SQL script
- Developed HR dashboard to enhance hiring performance by 55% using Power Automate, Python, and Power BI
- Implemented Box Cloud DMS and established data governing policy to prevent accidental data leaks

Projects

Undefeatable TIC TAC TOE - Python, Dynamic Programming, Object Oriented Programming

Feb 2023

- Created a Tic Tac Toe game UI in the terminal using Python and object-oriented programming.
- Implemented the min-max algorithm to simulate all the possible combinations and compute the best move
- Developed a simulation to test the effectiveness of the program using a random number generator

Mini Search Engine - Python, SQL, Dynamic Programming, Linear Algebra

Jan 2023

- Built a web crawler that searches the internet for a given input under some constraint and stores the results in SQLite
- · Utilized the Page Rank algorithm to perform a probability randomization experiment on the web pages and rank them
- 🗘 Twitter Analysis R, Hypothesis Testing, Confidence Interval, Linear Regression

Dec 2022

- Evaluated tweet timing, celebrity popularity, and tweet quality to drive higher user engagement
- Optimized social media engagement and enhanced tweet interaction through variable combination testing

Certifications

Introduction to Machine Learning – *Kaggle* – *Certificate*

May 2023

- Gained fundamental knowledge in ML, including applied stats, linear algebra, and supervised learning algorithms
- Developed proficiency in ML tools such as PyTorch, NumPy, SciKit, Sklearn, and Pandas
- Built a random forest model for predicting house prices with 94.59% accuracy on test data

Specialization in Python – Coursera, University of Michigan – Certificate

Oct 2021

- · Acquired strong fundamentals in Python, including strings, collections, iterables, modularity, and objects
- · Built strong fundamentals in core software concepts such as data structures, APIs, and databases
- Developed a web crawler to parse email data and visualize word frequency in a word cloud

Volunteer Experience

Black Tie Orientation Leader (2022) - Organized Math Orientation for over 200 students in Fall 2022