Saif Shahin

Machine Learning @ McGill, Vice President of Events for McRun.

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Education

McGill University   **Montreal, Quebec**

Bachelors of Engineering in Software Engineering, Minor in Applied Artificial Intelligence   *2020 - 2024*

- **Selected Graduate-Level Coursework:** ECSE 552- Deep Learning, COMP 550- NLP, COMP 551- Applied Machine Learning, COMP 579- Reinforcement Learning.
- **Selected Undergraduate Coursework:** Computer Organization, Software Engineering Practice, Software Requirements Engineering, Algorithm Design, Functional Programming, Signals and Networks, Database Systems, Design Methods.
- **Awards:** MES Science Excellence Scholarship

Technical Skills

Technical Languages: Python, Java, C, C#, MySQL, PostgreSQL, ARM, HTML, CSS, JS, Ocaml, VDHL.
Quantitative Frameworks: TensorFlow, NumPy, Pandas, Keras, Matplotlib, PyTorch, scikit-learn, SciPy, Jupyter.
Database Systems Frameworks: MongoDB, IBM, DB2.
Front End Frameworks: React, Node.js, Vue.js, JavaFX.
Software Development Frameworks: Gradle, Cucumber, Maven, Jira, JUnit, UML.

Experience

RecogniChess - Link   **2023**

- An unsupervised domain adaptation approach to chess board annotation.
- We proved that Domain Adaptation is more accurate by 21.83% than alternatives.
- A report offering a complete explanation of the approach and the results achieved can be found here. Slides summarizing the essentials are displayed here.

Automated Latin-English Authorship Attribution - Link   **2023**

- I led a team of two to implement Contrastive Learning on a range of ML models (SVM, BERT, mBERT, RNN, character-level CNN) to address automated Latin authorship attribution.
- The end-to-end pipeline I developed obtained a 93.06% accuracy on the test data.

Personality- Based Game Recommendation System - Link   **2023**

- A web application that recommends games tailored to users' Myers-Briggs personality type and gaming history.
- Vue, MVC, Gherkin.

Virtual Grocery Store - Link   **2022**

- Developed a full-stack Android web-app for a grocery store owner in a team of 5 using the Agile development process.
- The app handles managing employees, store branches, owners, and allows users to place orders for delivery and pickup.
- Java, Vue, Javascript, Gherkin, and UML.

ClimbSafe - Link   **2021**

- Full stack program I completed in a team of 6 employing Agile development.
- The app allows the client to easily manage climbing trips. The app handles Users can book hotels, equipment, and hire mountain guides. Admin can view what guides and equipment are hired. Guides can be assigned to users. Cancellations and refunds are also handled.
- MVC, Java, Gherkin, JavaScript, HTML, CSS.

Miscellaneous

Human Languages: Fluent in English and Arabic
Misc.: I have two years of serving experience; VP Events of McRun; Founder of Abu Dhabi Talks Philosophy (2020); Member of: McGill AI Society; GameDev McGill; HeforShe McGill; I like to lift weights.