Sina Nazeri (Ph.D.)

A Data Scientist, Researcher, AI Specialist

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Google Scholar

Professional Experience

International Business Machines (IBM)   **Jan 2023-Present**
Data Scientist

- Collaborating on Integrating LLAMA2 with IBM WatsonX AI & contributed to the IBM foundation model.
- Engineered prompts & vector databases for information retrieval; my two projects showcased at IBM techXchange 2023 (among overall 8 project that presented).
- Producing high-rated (4.7 stars) data science content (e.g., ML, AI application showcases) for IBM Skills Network available on platforms like Coursera and EDx.(View samples)
- Collaborating with IBM customers to execute data science tasks within the IBM Watson ecosystem.
- Employed Watson NLP for embeddable AI tasks including tweet sentiment analysis.
- Holding IBM workshops including "AI for Biomedical Engineering" at Toronto Metropolitan University, March 2023.

SIAT department, SFU   **Jan 2020- Dec 2022**
Lead data scientist and research associate:

- Identified 8 (such as Markov model, frequent sequential model, time-series model) key analytical methods from prior studies and successfully integrated two for predicting SIAT students at risk of failing the course.
- Identified key interactions with learning materials to optimize material design, and clustered various types of sequential behaviours using clustering algorithms [1].
- Illustrated the current trends in obtained data types, used algorithm, and drawn conclusions across temporal studies. Resulted in detecting trends in each category and highlighting unexplored areas [2].
- Implemented dashboards & analyzed sequential user behavior, resulting in a 17% rise in engagement among low-performing students [3].

Learning common centre, SFU   **Jan 2019- Dec 2022**
Senior Lab instructor:

- Led data science labs covering topics such as introductory data science with R and Python, Text Mining, NLP, Machine Learning, and Web Scrapping.
- Boosted lab attendance by 25-30% via content upgrades incorporating cutting-edge libraries (in python and R).

Computing Science (CS) department, SFU   **Jan 2022- May 2022**
Big Data Analyst (contract):

- Consulted on ML projects, leading to my selection as a mentor for students' data science projects.
- Orchestrated data science bootcamp workshops, establishing them as the most sought-after workshops at the university.

Engineering department, SFU   **Jan 2019- Jan 2020**
Data scientist (contract):

- Analyzed three decades of student data (25,000 students) for the SFU Engineering department, Developed ML model to predict students at risk of dropping out from the Engineering department.
- Presented the results to the department director, led to the establishment of an early warning system.

Education

Ph.D., Data mining Lab, Department of Interactive Technologies, Simon Fraser University (SFU), Canada (2017- 2023).
MSc., Intelligent Systems, Sarawak University of Malaysia (2013-2016).
B. Eng., Information Technology, Azad University (2007-2011).

Skills

- **Programming:** Proficient in R and Python, with expertise in libraries such as Scikit-Learn, SciPy, Matplotlib, Pandas, TensorFlow, Pytorch, Transformers, and Langchain. Knowledgeable about cloud platforms.
- **Data Management**: Well-acquainted with SQL and cloud-based data storage solutions.
- **Communication**: Strong public speaking and presentation skills, capable of articulating complex data insights to varied audiences. Thrives in multidisciplinary team settings.
- **Instructor Training**: Secured an instructor training certificate designed by SFU.

LEADERSHIP EXPERIENCE
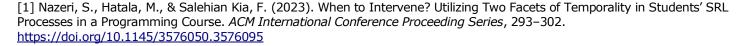
Led scrums and managed progresses., IBM   **May 2023- Present**
IBM Representative & Lead Instructor, Facilitated the iBest workshop at Toronto Metropolitan University. **March 2023**
Workshop Chair, Simon Fraser University (SFU), Oversaw and organized university workshops. **Jan 2020- Dec 2022**

Awards

Learning Analytics, Conference award, Texas (2022).
Ph.D. Fellowship, SFU (four awards:2018-2021).
Society of Learning Analytics (SoLAR) award (2018).
Master's scholarship, Full-fund, Sarawak University of Malaysia (2013-2015).

Selected publications

[1] Nazeri, S., Hatala, M., & Salehian Kia, F. (2023). When to Intervene? Utilizing Two Facets of Temporality in Students' SRL Processes in a Programming Course. *ACM International Conference Proceeding Series*, 293–302. https://doi.org/10.1145/3576050.3576095

[2] Nazeri, S., Hatala, M., & Neustaedter, C. (2023). Associations of Research Questions, Analytical Techniques, and Learning Insight in Temporal Educational Research: A Systematic Mapping Study. *Journal of Learning Analytics*, *10*(2), 68–84. https://doi.org/10.18608/jla.2023.7745

[3] Hatala, M., Nazeri, S., & Salehian Kia, F. (2023). Progression of students' SRL processes in subsequent programming problem-solving tasks and its association with tasks outcomes. *The Internet and Higher Education*, *56*, 100881. https://doi.org/10.1016/J.IHEDUC.2022.100881

[4] Nozari, H. A., Nazeri, S., Banadaki, H. D., & Castaldi, P. (2018). Model-free fault detection and isolation of a benchmark process control system based on multiple classifiers techniques—A comparative study. *Control Engineering Practice*, *73*, 134-148. https://doi.org/10.1016/j.conengprac.2018.01.007

[5] Nazeri, S., & Lee, N. K. (2018). Ensemble Prediction of Enhancers Associated Marks Using k-mer Feature. *Advanced Science Letters*, *24*(2), 1163–1167. https://doi.org/10.1166/asl.2018.10708

References are available upon request.