

REEM SALMAN

ReemElfatih10@gmail.com

Trondheim, Norway

+47 46367789

Education	American University of Sharjah, Sharjah, UAE	
	Master of Science in Mathematics , CGPA: 3.76/4.0	08/2022
	Bachelor of Science in Mathematics , CGPA: 3.91/4.0	06/2020
	Minors in Actuarial Mathematics & Computer Science	

Publications	Salman, R. , Alzaatreh, A., & Sulieman, H. (2026) A review of feature selection methods and ensembles. <i>WIREs: Data Mining and Knowledge Discovery</i> 16.2 (2026): e70085.	
	Salman, R. , Alzaatreh, A., & Sulieman, H. (2025). Within importance score aggregation for wrapper-based feature selection and its stability. <i>Annals of Data Science</i> , 1-25.	
	Salman, R. , Alzaatreh, A., & Al Bataineh, M. T. (2023). Feature selection of the respiratory microbiota associated with asthma. <i>Journal of Big Data</i> , 10(1), 90.	
	Salman, R. , Alzaatreh, A., & Sulieman, H. (2022). The stability of different aggregation techniques in ensemble feature selection. <i>Journal of Big Data</i> , 9(1), 1-23.	
	Salman, R. , & Alzaatreh, A. Market Basket Analysis of Chicago road accidents. <i>ASET Conference</i> , IEEE. pp. 1-7.	
	El-Sakran, A., Salman, R. , & Alzaatreh, A. (2022). Impacts of Emergency Remote Teaching on college students amid COVID-19 in the UAE. <i>Int J Environ Res Public Health</i> , 19(5), 2979.	
	Salman, R. , Alzaatreh, A., Sulieman, H., & Faisal, S. (2021). A bootstrap framework for aggregating within and between feature selection methods. <i>Entropy</i> , 23(2), 200.	

Conferences	“The stability influence of the aggregation procedure on ensemble feature selection,” UAE Graduate Students Research Conference (UAE-GSRC). Dubai, March, 2022.	
	“Market Basket Analysis of Chicago road accidents,” 4th Advances in Science and Engineering Technology Multi-Conferences (ASET). Dubai, February, 2022.	
	“An ensemble framework for feature selection methods,” UAE Graduate Students Research Conference (UAE-GSRC). Abu-Dhabi, June, 2021.	
	“A bootstrap framework for aggregating within and between feature selection methods,” Third AUS Regional Students' Conference. Sharjah, April, 2021.	

Research Experience	American University of Sharjah, Sharjah, UAE	06/2020 – 08/2022
	Graduate Research & Teaching Assistant , Math Department • Developed ensemble frameworks for large-scale data analysis, addressing stability issues. • Reviewed literature, identified research gaps, and co-developed new methodologies. • Implemented models in R, designed experiments, analyzed results, and co-authored 7 peer-reviewed manuscripts.	
	Undergraduate Research Assistant , Math Department	03/2018 – 03/2019
	• Investigated global sensitivity analysis using Sobol estimators, benchmarking against local sensitivity and feature selection methods. • Developed a new Monte Carlo procedure in R for the numerical estimation of Sobol indices. • Optimized algorithms with preprocessing, partial correlation analysis, and quasi-random sequences (Halton, Sobol), cutting simulation cost by ~25%.	

Industry Experience	InterSystems, Dubai, UAE 08/2024 – 04/2025 Lead Data Analyst (PMO) - Designed and managed KPIs and real-time BI dashboards to track project timelines, budgets, and risks, enhancing stakeholder visibility by 60%. - Automated cross-departmental reporting processes with Python and Power Automate, achieving \$30K in monthly cost efficiencies. - Led several initiatives to optimize PMO reporting frameworks, shortening report generation cycles by 50% while maintaining data integrity.
	InterSystems, Dubai, UAE 07/2022 – 08/2024 Data Analyst (PMO) - Conducted risk assessments and trend analyses to proactively identify potential project bottlenecks, contributing \$150K+ in annual savings. - Developed automation scripts to extract and transform project data, saving 20+ hours weekly in manual reporting tasks.
Other Experience	American University of Sharjah, Math Department, <i>Teaching Assistant</i> Fall/Spring 2021 American University of Sharjah, Math Department, <i>Grader</i> Fall 2019 - Spring 2022 American University of Sharjah, Math Department, <i>Peer Tutor</i> Spring 2017
Awards	AUS Graduate Student Research, Scholarly, and Creative Work Excellence Award in 2022 Excellence in Research Award (2nd Forum for Women in Research) in 2021 Al Ghurair STEM Scholarship (Al Ghurair Foundation for Education) for 2016-2020 Ranked as 4th in Dubai (High School Graduate - Science Division) in 2016
Languages & Skills	Technical: R, Python, C++, Power BI, SQL, MATLAB, JASP, SAS Enterprise Miner Languages: Arabic (Native), English (Fluent)
Leadership Experience	- Chair of the Mathematics and Statistics session at the UAE GSRC in 2022 - Lead Moderator of the AGFE Online Community in 2020 - Selected as CAS Ambassador for the first-year experience in 2019 - Ghurair Buddy & Mentor to new STEM scholars at the university in 2019 - Nominated for the Global Women in Leadership Economic Forum in 2018 - Participated in the Youth Forum of the World Government Summit in 2017 - Al Ghurair Facebook Community Manager overseeing 300+ scholars since 2017 - Elected as student representative and presented graduation speech in 2016
Volunteering Experience	100+ hours of community service in fundraising, food distribution, and home renovation - Member in ongoing initiative that prepares reading material for the visually impaired - Completed the Psychological First Aid Certificate and Takatof Volunteering Essentials