

EXECUTIVE PROFILE

Dr. Ibrahim bin Rizqallah Alzahrani

Associate Professor of Data Science and Artificial Intelligence

University of Hafr Al Batin | College of Computer Science and Engineering

Expertise and experience

Research in artificial intelligence and cybersecurity, combined with university digital transformation leadership. Experience includes founding and leading the Deanship of E-Learning and Digital Transformation, and serving as Vice Dean for Administrative Affairs, Development and Quality.

Collaboration pathways

Intelligence for better decisions

Natural language processing, machine learning, and the use of data in education and decision support. Collaboration opportunity: a use-case feasibility study, followed by a research prototype and an evaluation plan covering accuracy, limitations, and risks.

Research for connected environments

Research on ransomware detection, IoT security, and deep learning applications for threat detection. Collaboration opportunity: evaluate a detection model on authorized data, measuring false alarms and generalization.

Simpler services, clearer performance

Experience in university digital transformation, service integration, performance governance, and beneficiary experience. Collaboration opportunity: analyze a service journey and define improvements, measurement indicators, and an implementation roadmap.

Education

PhD in Computer Science and Engineering, University of the West of Scotland (2020). MSc in Advanced Computer Networking, Glasgow Caledonian University (2014).

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Selected work and evidence

Text analysis for hate and offensive speech detection

PUBLISHED RESEARCH · 2025

Documented role: Sole author, as recorded in the publication metadata.

Work and findings: The study presents SM-CJ, a BiLSTM-based framework using text cleaning and TF-IDF representation, evaluated through accuracy, precision, recall, F1, and comparisons with other methods.

Limitations and validation: Hate speech classification is not beneficiary satisfaction analysis. Government-service use requires new data, evaluation, and human review. Performance on Arabic is not established here.

[Original publication](#)

Deep learning for ransomware detection

CO-AUTHORED RESEARCH · 2024

Documented role: Co-author with Randa Allafi. The available abstract does not specify the division of individual contributions.

Work and findings: EBSAEDL-RD combines normalization, Ebola Optimization Search for feature selection, a BiGRU classifier, and Sparrow Search for parameter tuning, with comparative benchmark experiments.

Limitations and validation: Benchmark results do not establish production readiness or detection of every attack. Independent validation is required before operational use.

[Original publication](#)

Sahl: unifying administrative services

INSTITUTIONAL EXPERIENCE

Documented role: Executive leadership of Sahl's development and launch.

Work and findings: A unified portal and system integration within a programme targeting the digitization of more than 250 procedures and forms.

Limitations and validation: 250+ is a programme target, not a verified count of completed procedures. Published before/after measurements or cost-reduction rates are not provided here.

[CV](#) · [page 5](#)

Contact and sources

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Research cases draw on publication metadata and abstracts. Collaboration opportunities are proposals, not delivered results or governmental endorsements.

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