

# DR AHMAD ABDULLAH ALQARNI

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## RESEARCHER & IT CONSULTANT

Opportunity with a government agency or an industry leader that will benefit from proven ability in:

Cybersecurity, IT Risk Management, Data Governance, Data Management, Data Analysis, Business Analysis, AI, Machine Learning, Deep Learning, Project management, Business Strategy, communication, and coordination

- o Motivated, result-driven professional with ample consultancy experience in Cybersecurity, IT Risk Management, Cloud Computing, Machine Learning, Artificial Intelligence, Big Data, data integration, Data governance, and Data Analysis and Classification.
- o Excellent communicator with well-honed listening skills and the ability to interact with a diverse population of people.
- o Skilled at resolving problems through engagement of analytical and critical attributes.
- o Quick learner with a keen eye for detail and the ability to work within aggressive timelines.
- o Technical Expertise: Artificial Intelligence, Explainable AI, Machine Learning, Deep Learning, Cybersecurity, IT Risk Management, Cloud Computing, Machine Learning, Data mining, Data Governance, and Data Analysis and Classification, Project Management, Business Strategy.
- o superior oral and written communication skills in English and Arabic.

## EDUCATION

Ph.D.: Doctor of Philosophy ~ Computer Science (2016)

Master of Information Technology (2010)

LaTrobe University, Melbourne, VIC, Australia

- Ph.D. Thesis: Methodology of managing big unstructured data within structured data repositories
- Outstanding academic records certificate and award, Head of Saudi Culture Mission in Australia, 2016
- Golden Key for top academic performance, Golden Key International Honor Society, 2014

Bachelor of Computer Science (2004)

King Abdulaziz University, Jeddah, Saudi Arabia

Professional Affiliation: Member, IEEE (Institute of Electrical and Electronics Engineers)

## PROFESSIONAL EXPERIENCE

AL BAHA UNIVERSITY, Al Baha, Saudi Arabia

Jan 2004–Present

Chairman of Information Technology Department (2019-Present)

Vice Dean of Academic Affairs of the Faculty of Computer Science (2017-2018)

Chairman of Information Technology Department (2017-2018 & 2019-Present)

Assistant Professor – Faculty of Computer Science (2017–Present)

Lecturer (2010–2016)

Assistant Teacher (2004–2010)

## Professional Certificates

IBM Business Intelligence analyst Mastery Award (Issued 2020)

- IBM COGNOS Analytics

Certified Chief Information Security Officer (CCISO) (Issued 2021).

- Governance and Risk Management
- Information Security Controls, Compliance and Audit Management
- Security Program Management and Operations
- Information Security Core Competencies

## RESEARCH EXPERIENCE

Experienced Researcher During Master and Ph.D. Studies (2009-2016)

- **Project Management:**
  - **Aspects:** Scope statement, scheduling management, risk management, resource management, deliverable, budget, stakeholder management.
- **Business Strategy:**
  - **Aspects:** Setting Vision, missions, values, long-term goals, operational objectives, SWOT Analysis, and action plans.
- **Cybersecurity:**
  - **Aspects:** Governance, Risk, Compliance, Information Security Controls and Audit Management, Security Program Management & Operations, Information Security Core Competencies, Strategic Planning, Finance, Procurement, and Third-Party Management.
- **IT Risk Management:**
  - Security and risk management, Risk assessment frameworks, Risk mitigation, Risk communication, Risk monitoring and review, Risk standards, compliance.
- **Artificial Intelligence:**
  - **Aspects:** Time Series, Clustering, Deep Learning, Machine learning Classifications, Neural Networks
- **Data Analysis:**
  - **Aspect:** Inspection, cleaning, transformation, and modelling data to find key information and insights to support and facilitate the decision making process.
- **Data Governance:**
  - **Aspect:** Managing data availability, usability, integrity, and security in enterprise systems according to standards and policies.

Experienced Researcher During Master and Ph.D. Studies (2009-2016)

- **Cloud Computing:**
  - **Techniques:** Infrastructure as a service (IaaS), Platform as a service (PaaS), Software as a service (SaaS), Cloud deployment, and Virtualization.
  - **Tools:** Amazon Web Service (AWS), Microsoft Azure, Google Cloud Platform, IBM Cloud Services.
- **Data Mining:**
  - **Techniques:** Data Extraction, Creating and using ontologies, Data Wrangling, Pattern Tracking, Classification, Clustering, Regression, Prediction, and data warehousing.

## **Ahmad Abdullah A. Alqarni CV**

- Tools: Web Scraper, Rapid Miner, Apache Mahout, Oracle Data Mining, IBM SPSS Modeler, SAS Data Mining, Teradata, R-Programming, and WordNet.
- **Machine Learning:**
  - Techniques: Regression, Classification, clustering, Dimensionality Reduction, Deep Learning, etc., Sentimental Analysis.
  - Tools: Python, R, Scikit Learn, Matplotlib, NumPy, Keras, NLTK, Pandas, Tensorflow, Apache Mahout, Rapid Miner.
- **Data Integration:**
  - Techniques: Natural Language Processing, Text Tokenization, Text Segmentation, Text Stemming and Lemmatization, Data Consolidation, Data Federation, Data Propagation, Data Virtualization, and Data Warehousing.
  - Tools: IBM InfoSphere, Oracle Data service Integrator, WordNet, Domain Ontologies, Altova, CoreNLP, NLTK, Stanford, Tokenizer.
- **XML Schemas Matching:**
  - Techniques: instance-based matching, linguistic-based, constraint-based schema-based matching, name matching, structure matching, domain-specific, general ontologies, rule-based, and learning-based solutions, etc.
  - Tools: XBenchMatch, SQL Examiner.

## **MEMBERSHIPS**

- Head of Quality and Accreditation Committee in Department of IT in the Faculty of Computer Science and Information Technology (2019- Present).
- Head of Development of Teaching Plans (2019 – Present).
- Member of the Technical Program Committee of the 35th International Conference on Advanced Information Networking and Applications (AINA-2021) Ryerson University, Toronto, Canada, May 12 - 14, 2021
- Head of Staff Committee in the Faculty of Computer Science and Information Technology (2017-2018).
- Head of Disciplinary Committee in the Faculty of Computer Science and Information Technology (2017-2018).
- Head of Advance Standing Committee in the Faculty of Computer Science and Information Technology (2017-2018).
- Head of Academic Affairs Unit in the Faculty of Computer Science and Information Technology (2017-2018).
- Member of the Technical Program Committee of the International conference on Electrical engineering and Computer Science (ICECOS 2017).
- Member of the Technical Program committee of the 4<sup>TH</sup> International conference on Electrical Engineering Computer Science and Informatics (EECSI 2017).
- Member of Al Baha University Academic Affairs Committee.
- IEEE Professional Membership (2017-Present).

## **AWARDS AND RECOGNITIONS**

- Outstanding Academic Records certificate and award, Saudi Arabian Culture Mission in Australia (2017).
- Academic Leadership Certificate, Academic Leadership Center (2013).
- Golden Key for Top Academic Performance, Golden Key International Honor Society (2014-Present).
- Honorary board member (2015).
- Outstanding Academic Records certificate and award, Saudi Arabian Culture Mission in Australia (2009)
- 1st Class Honor, King Abdulaziz University (2004).
- KAU Academic Excellence, King Abdulaziz University (2004).
- KAU Academic Excellence, King Abdulaziz University (2003).
- KAU Academic Excellence, King Abdulaziz University (2002).

## PUBLICATIONS

### Journal Publication

- A. A. Alqarni and E. Pardede, 'XML Schema Matching Using Early Dissimilarity Detection Approaches,' International Journal of Computer Systems Science and Engineering (IJCSSSE), vol. 31(5), 2016.
- A. A. Alqarni. 'A Secure Approach for Data Integration in Cloud using Paillier Homomorphic Encryption.' (2021).
- Aldhyani, T. H. H., Joshi, M. R., AlMaaytah, S. A., Alqarni, A. A., & Alsharif, N. (2021). Using Sequence Mining to Predict Complex Systems: A Case Study in Influenza Epidemics. Complexity, 2021, 1–16. <https://doi.org/10.1155/2021/9929013>
- Senan, E. M., Al-Adhaileh, M. H., Alsaade, F. W., Aldhyani, T. H. H., Alqarni, A. A., Alsharif, N., ... Alzahrani, M. Y. (2021). Diagnosis of Chronic Kidney Disease Using Effective Classification Algorithms and Recursive Feature Elimination Techniques. Journal of Healthcare Engineering, 2021, 1004767. <https://doi.org/10.1155/2021/1004767>
- Alsubari, Saleh Nagi, Sachin N. Deshmukh, Ahmed Abdullah Alqarni, Nizar Alsharif, Theyazn HH Aldhyani, Fawaz Waselallah Alsaade, and Osamah I. Khalaf. 'Data Analytics for the Identification of Fake Reviews Using Supervised Learning.' CMC-COMPUTERS MATERIALS & CONTINUA 70, no. 2 (2022): 3189-3204.
- Alqarni, A. A., Alsharif, N., Khan, N. A., Georgieva, L., Pardede, E., & Alzahrani, M. Y. (2022). MNN-XSS: Modular neural network based approach for XSS attack detection. Computers, Materials and Continua, 70(2), 4075-4085. <https://doi.org/10.32604/cmc.2022.020389>

### Conference Publications

- A. A. Alqarni and E. Pardede, 'Integration of Data Warehouse and Unstructured Business Documents,' in proceedings of the 15th International Conference on Network-Based Information Systems (NBIS), Melbourne, Australia, 2012, pp. 32-37.
- A. A. Alqarni and E. Pardede, 'Internal Filtering Approach toward Efficiency Optimization of Matching Large-Scale XML Schemas,' in proceedings of the 16<sup>th</sup> International Conference on Network-Based Information Systems (NBIS), Gwangju, Korea, 2013, pp. 464-469.
- A. A. Alqarni, 'Security Threats in Cloud Computing Based Smart Grids and its Countermeasures,' 2020 IEEE International Conference on Advent Trends in Multidisciplinary Research and Innovation (ICATMRI), 2020, pp. 1-5, doi: 10.1109/ICATMRI51801.2020.9398427.

## REFERENCES

Dr. Eric Pardede  
Senior Lecturer - Undergraduate and  
Honors Courses Coordinator  
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