Academic Resume

Omaima Almatrafi

Assistant Professor, Information Systems Department

Contact Information.

Building 61, Room 178, Ext. 26558, oalmatrafi@kau.edu.sa.

Highest Degree.

2018, Information Technology, Information Systems, George Mason University, USA.

Academic and Professional Experiences.

1. **2023 - Present**
   Visiting Researcher, Department of Information Sciences and Technology, George Mason University, USA., , .
2. **2019 - Present**
   Assistant Professor, Information Systems Department, Faculty of Computing and Information Technology, KAU.
3. **2019 - 2023**
   Coordinator in the Academic Affairs and Academic Supervision Committee, Information Systems Department, Faculty of Computing and Information Technology, KAU.
4. **2017 - 2018**
   Research Assistant, Department of Information Sciences and Technology, George Mason University, USA, , .
5. **2014 - 2014**
   Undergraduate Teaching Assistant, Computer Science Department, George Mason University, USA.
6. **2013 - 2014**
   App Developer, The Kellar Institute for Human disAbilities, Fairfax, VA, , .
7. **2008 - 2010**
   Teaching Assistant, Information Systems Department, Faculty of Computing and Information Technology, KAU.

Research Interests.

Learning analytics, Text Analysis, Machine Learning, Data mining, Computer-supported collaborative learning.

Teaching Interests.

Text Analytics, Data Science, Professional Computing Issues.

Last Profile Update: February 15, 2024

Certifications and Trainings.

1. Academic Leadership Development workshop, organized by the Ministry of Education in the Kingdom of Saudi Arabia, Falls Church, VA.
2. Key Performance Indicators (KPIs), organized by Center for Teaching and Training Development, King Abdulaziz University.
3. How to Use Coaching Leadership Style to Become a Successful Leader, organized by Center for Teaching and Learning Development, King Abdulaziz University.
4. Assessment of Student Learning, organized by ABET..
5. IBM Predictive Analytics Modeler Certificate.

Social, Scientific and Professional Affiliation.

1. 2024-Present, Membership, IEEE.

Excellence Awards and Patents.

1. 2014, International, Outstanding Academic Achievement Award, Department of Computer Science, George Mason University

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Publications.

1. Khloud A. Alshaikh, Omaima A. Almatrafi, Yoosef B. Abushark, "Bert-Based Model For Aspect-Based Sentiment Analysis For Analyzing Arabic Open-Ended Survey Responses: A Case Study", Ieee Access, vol: 12, pp. 2288-2302, 2023.
   DOI: 10.1109/ACCESS.2023.3348342

2. Omaima Almatrafi, Aditya Johri, "Improving Moocs Using Information From Discussion Forums: An Opinion Summarization And Suggestion Mining Approach", Ieee Access, vol: 10, pp. 15565-15573, 2022.
   DOI: 10.1109/ACCESS.2022.3149271

3. Sara Alqaidi, Waad Alharbi, Omaima Almatrafi, "A Support System For Formal College Students: A Case Study Of A Community-Based App Augmented With A Chatbot", 2021 19th International Conference On Information Technology Based Higher Education And Training (Ithet), pp. 01-05, 2021.
   DOI: 10.1109/ITHET50392.2021.9759796

4. Omaima Almatrafi, Aditya Johri, "Systematic Review Of Discussion Forums In Massive Open Online Courses (Moocs)", Ieee Transactions On Learning Technologies, vol: 12, pp. 413-428, 2019.
   DOI: 10.1109/TLT.2018.2859304

5. Omaima Almatrafi, Aditya Johri, Huzefa Rangwala, "Needle In A Haystack: Identifying Learner Posts That Require Urgent Response In Mooc Discussion Forums", Computers & Education, vol: 118, pp. 1-9, 2018.
   DOI: 10.1016/j.compedu.2017.11.002

6. Omaima Almatrafi, Aditya Johri, Huzefa Rangwala, Jaime Lester, "Board # 65 : Retention And Persistence Among Stem Students: A Comparison Of Direct Admit And Transfer Students Across Engineering And Science", 2017 Asee Annual Conference & Exposition, 2017.
   DOI: 10.18260/1-2--27899

7. Omaima Almatrafi, Aditya Johri, "Showing And Telling: Response Dynamics In An Online Community Of Makers", 12th International Conference On Computer Supported Collaborative Learning (Cscl) 2017, 2017.

8. Almatrafi, O., Johri, A., Rangwala, H., Lester, J., "Identifying Course Trajectories Of High Achieving Engineering Students Through Data Analytics", Asee Annual Conference And Exposition, Conference Proceedings, 2016.

9. Omaima Almatrafi, Suhem Parack, Bravim Chavan, "Application Of Location-Based Sentiment Analysis Using Twitter For Identifying Trends Towards Indian General Elections 2014", The 9th International Conference, pp. 1-5, 2015.
   DOI: 10.1145/2701126.2701129

10. Almatrafi, O., Islam, K., Johri, A., Nagappan, K., Modanlu, A., "An Empirical Study Of Face-To-Face And Distance Learning Sections Of A Core Telecommunication Course", Asee Annual Conference And Exposition, Conference Proceedings, 2015.