Name	:	Mohammed Temraz
Department	:	College of Computer and Cyber Sciences
Job Title	:	Assistant Professor
Contact Mail ID	:	m.temraz@upm.edu.sa
Contact Number	:	+966555341201

Dr. Mohammed Temraz is Assistant Professor at the UPM College of Computer and Cyber Sciences. He has a PhD in Computer Sciences and Artificial Intelligence from University College Dublin (UCD, 2023), a MSc in Data Analytics from Technological University Dublin (TU Dublin, 2018) and a BSc in Information Systems from Taibah University (2012). He has over 6 years' experience in the field of AI, and numerous research papers presented at international conferences and published in journals. Temraz's work spans the counterfactuals algorithms and AI. His recent work on counterfactual augmentation (CFA) is inherently interdisciplinary as it reuses novel AI explanation strategies that are then tested in data augmentation.

Qualification :

Ph.D.
M.Sc.
CPD Diploma
B.Sc.

Research Interest :

Artificial Intelligence ,	**Data Science,**
Data Analytics,	**Data Augmentation**
Business Intelligence,	**Data Visualization**
Data Mining,	**Machine Learning**
Counterfactuals	

Publications :

- **Mohammed Temraz, and Mark T. Keane. Solving the class imbalance problem using a counterfactual method for data augmentation. Machine Learning with Applications 2022.**

- Mohammad Temraz, Eoin M. Kenny, Elodie Ruelle, Laurence Shalloo, Barry Smyth, and Mark T. Keane. Handling Climate Change Using Counterfactuals: Using Counterfactuals in Data Augmentation to Predict Crop Growth in an Uncertain Climate Future. The International Conference on Case- Based Reasoning (ICCBR) 2021.

- Mark T. Keane, Eoin M. Kenny, Mohammad Temraz, Derek Green, and Barry Smyth. Twin Systems for DeepCBR: A Menagerie of Deep Learning and Case- Based Reasoning Pairings for Explanation and Data Augmentation. The International Conference on Case-Based Reasoning (ICCBR) 2021, workshop on Deep Learning and CBR.

- Eoin M. Kenny, Elodie Ruelle, Anne Geoghegan, Laurence Shalloo, Michael O'Leary, Micheal O'Donovan, Mohammad Temraz, and Mark T. Keane. Bayesian Case-Exclusion and Personalized Explanations for Sustainable Dairy Farming. The International Joint Conference on Artificial Intelligence (IJCAI) 2020. Journal Track, 5 pages.

- Mohammed Temraz. A Comparison of Supervised Learning Algorithms for the Income Classification. International Journal of Computer Applications 182(38):19-25, January 2019.

Other Accreditation:

- **Professional Project Management Certificate, University of Prince Mugrin – 2023**
- **Communication Certificate, VistaMilk Internal Conference, Cork, Ireland, 2022**
- **Communication Certificate, the 29th International Conference on Case-Based Reasoning (ICCBR), Salamanca, Spain, 2021**
- **Research Integrity, University College Dublin – 2021**
- **WorkshopPLUS - Developing Applications Microsoft Services Approach Certificate, Microsoft, 2018**
- **Learning ArcGIS Desktop (for ArcGIS 10.0) Certificate, Esri, 2015**
- **International Computer Driving License Certificate, ICDL Saudi, 2008**