

Academic Resume



Mutasem Jarrah

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Contact Information.

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Highest Degree.

2020, Ph.D, Deep learning, stock market predictions, Machine learning and Data Analysis, UTM, Malaysia.

Academic and Professional Experiences.

1. **2020 - Present**
Assistant Professor @ Deep Learning , Stock Market Prediction based on Deep Learning and News, Jeddah, King Abdulaziz University.
2. **2008 - 2019**
Lecturer @ Information Technology Department - King Abdulaziz University - Jeddah - KSA, , .
3. **2000 - 2007**
Developer @ Telecommunication Sector - Orange Group - Jordan, , .
4. **1997 - 2000**
Developer @ Telecommunication Sector - Etisalat - Dubai - UAE, , .

Research Interests.

Deep Learning, Machine Learning, Stock Market Predictions.

Teaching Interests.

Data Analysis , Machine Learning, Database, Time Series, Predictions Regression.

Certifications and Trainings.

1. Master Degree - Thesis Track "The effects of data mining in decision making".
2. PhD - Stock Market Prediction based on Deep Learning and News.

Social, Scientific and Professional Affiliation.

1. 2020-Present, Reviewer, Deep Learning.

Excellence Awards and Patents.

1. 2017, Interior, Academic Excellence Award., FCIT.

Funded Projects.

1. 2022, Predicting Saudi Stock Market Index by Using Multivariate Time Series based on deep Learning, DSR, Done - Close.
2. 2023, AI & IoT-based fall detection/prevention system for older people, DSR, Open.

Publications.

1. Mutasem Jarrah, "Time Series Prediction Analysis Of Long Short Term Memory Models", 6th International Conference On Computing And Informatics, 2024.
2. Mutasem Jarrah, "Long Short Term Memory And Discrete Wavelet Transform Based On Univariate Stock Market Prediction Model", Journal Of Information And Organizational Sciences, 2024.
3. Amir Ahmad, Sami M. Halawani, Ajay Kumar, Arshad Hashmi, Mutasem Jarrah, Abdul Rafey Ahmad, and Zia Abbas, "A Theoretical Study Of The Representational Power Of Weighted Randomized Univariate Regression Tree Ensembles", Journal Of Information & Knowledge Management, 2024.
4. Sami M. Halawani, Mutasem Jarrah, "A Short Review Of One-Class Classification Algorithms", Journal Of Computer Engineering, 2023.
5. Abdulaziz A Alzubaidi, Sami M Halawani, Mutasem Jarrah, "Towards A Stacking Ensemble Model For Predicting Diabetes Mellitus Using Combination Of Machine Learning Techniques", International Journal Of Advanced Computer Science And Applications, vol: 14, 2023.
DOI: [10.14569/IJACSA.2023.0141236](https://doi.org/10.14569/IJACSA.2023.0141236)
6. Mutasem Jarrah, Morched Derbali, "Predicting Saudi Stock Market Index By Using Multivariate Time Series Based On Deep Learning", Applied Sciences, vol: 13, pp. 8356, 2023.
DOI: [10.3390/app13148356](https://doi.org/10.3390/app13148356)
7. Morched Derbali, Mutasem Jarrah, Princy Randhawa, "Autism Spectrum Disorder Detection: Video Games Based Facial Expression Diagnosis Using Deep Learning", The Science And Information Organization, vol: 14, 2023.
DOI: [10.14569/IJACSA.2023.0140112](https://doi.org/10.14569/IJACSA.2023.0140112)
8. Madini O. Alassafi, Mutasem Jarrah, Reem Alotaibi, "Time Series Predicting Of Covid-19 Based On Deep Learning", Neurocomputing, 2022.
DOI: [10.1016/j.neucom.2021.10.035](https://doi.org/10.1016/j.neucom.2021.10.035)
9. Mutasem Jarrah, Naomie Salim, "A Long Short Term Memory And A Discrete Wavelet Transform To Predict The Stock Price", Innovative Systems For Intelligent Health Informatics, Innovative Systems For Intelligent Health Informatics, vol: 72, pp. 304-313, 2021.
DOI: [10.1007/978-3-030-70713-2_29](https://doi.org/10.1007/978-3-030-70713-2_29)
10. Kanchymalay Kasturi, N.Salim, Ramesh Krishnan, U.R.Hashim, M.B. MasAina, Indradevi S, Mutasem Jarrah, "A Comparative Study On Univariate Time Series Based Crude Palm Oil Price Prediction Model Using Machine Learning Algorithms", International Journal Of Advanced Trends In Computer Science And Engineering, vol: 9, pp. 5802-5806, 2020.
DOI: [10.30534/ijatcse/2020/238942020](https://doi.org/10.30534/ijatcse/2020/238942020)
11. Mutasem Jarrah, Naomie Salim, "A Recurrent Neural Network And A Discrete Wavelet Transform To Predict The Saudi Stock Price Trends", International Journal Of Advanced Computer Science And Applications, vol: 10, 2019.
DOI: [10.14569/IJACSA.2019.0100418](https://doi.org/10.14569/IJACSA.2019.0100418)
12. Yazan Alaya AL-Khassawneh, Naomie Salim, Mutasem Jarrah, "Improving Triangle-Graph Based Text Summarization Using Hybrid Similarity Function", Indian Journal Of Science And Technology, vol: 10, pp. 1-15, 2017.
DOI: [10.17485/ijst/2017/v10i8/108907](https://doi.org/10.17485/ijst/2017/v10i8/108907)
13. Mutasem Jarrah, Naomie Salim, "The Impact Of Macroeconomic Factors On Saudi Stock Market (Tadawul) Prices - [Http://Worldcomp-Proceedings.Com/Proc/P2016/Abd3282.Pdf](http://Worldcomp-Proceedings.Com/Proc/P2016/Abd3282.Pdf)", Las Vegas - Int''L Conf. On Advances In Big Data Analytics | Abda''16 |, 2016.

Publications.

14. Mutasem Jarrah, Naomie Salim, "Stock Market Prediction Based On Term Frequency-Inverse Document Frequency", Journal Of Economics, Business And Management, vol: 4, pp. 183-187, 2016.
DOI: [10.7763/JOEBM.2016.V4.388](https://doi.org/10.7763/JOEBM.2016.V4.388)
15. Fazal Khan, Mutasem Jarrah, "Smart Traffic System Using Rfid", 5th Annual Undergraduate Research Conference On Applied Computing (Urc 2013), pp. 34-34, 2013.
16. MORCHED DERBALI, MUTASEM JARRAH, MOHD TAIB WAHID, "A Review Of Speech Recognition With Sphinx Engine In Language Detection", Wwww.Jatit.Org, 2012.
17. Fazal Khan, Mutasem Jarrah, "Tele-Order System For Supermarket (Toss)", Fourth Annual Undergraduate Research Conference On Applied Computing (Urc 2012), pp. 104-104, 2012.
18. Mohd Taib Wahid, Mutasem Jarrah, Morched Derbali, "Enhancement Of Dtw Algorithm In On-Line Signature Mapping Using The Lost-Box Recovery Algorithm", Jkau, 2011.