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Qualifications: Ph.D. (Computer Science), M. Phil (Computer Science), MCA

Area of Interest/Specialization: Data Mining, Machine Learning, Optimization

Experience: 4 years

Awards and Honors: 02

REAEARCH PUBLICATIONS

1. (2024), “Analytical Hierarchical Process (AHP) Based portfolio Ranking of Bombay Stock Exchange” is published in **ShodhKosh: Journal of Visual and Performing Arts**”, 5(1):1804-1811 (UGC Care List).
2. (2024), “Bombay Stock Exchange Portfolio Ranking using Combined Compromise Solution (CoCoSo) Method” is published in **International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)**, 4(3):144-148.
3. (2022), “An integrated K-means-GP approach for US stock fund diversification and its impact due to COVID-19” is published in **Int. J. Computational Economics and Econometrics (Inder Science, Scopus Indexed Journal)**.
4. (2022), “An Improved and Customized Hybrid of Deep and Machine Learning Technique Model for Handwritten Digit Recognition” is published in **SAMRIDDHI Journal, (UGC Care Listed Journal)**.
5. (2022), “Coronary Artery Disease Classification using Deep Neural Network and Ensemble Models Optimized by Particle Swan Optimization” is published in **International Journal of Applied Metaheuristic Computing, IGI Global (ESCI, Scopus Indexed Journal)**.
6. (2021), “Detection of lung nodule and cancer using novel Mask-3 FCM and TWEDLNN algorithms”. **Measurement**. 172:1-14 (Elsevier, SCI, Scopus Indexed Journal).
7. (2021), “A Novel Design of Classification of Coronary Artery Disease Using Deep Learning and Data Mining Algorithms”. **Revue d'Intelligence Artificielle | IETA**. 35(3):209-215. (Scopus Indexed Journal)
8. (2021), “An Ensemble Model With Genetic Algorithm for Classification of Coronary Artery Disease”. **International Journal of Computer Vision and Image Processing** , IGI Global. 11(3):70-83 (UGC- Care List Journal)

9. (2021), "Design Of CNN Based Model for Handwritten Digit Recognition Using Different Optimizer Techniques". **Turkish Journal of Computer and Mathematics Education**. 12(11): 3812-3819.
10. (2021), "Novel Deep Neural Network Model for Handwritten Digit Classification and Recognition". **International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)**. 2(2):30-35. DOI: 10.48175/IJARSCT- 781
11. (2021), "Selection of Foreign Players in T20 Cricket League Using Multiple Criteria Decision Making (MCDM) Techniques". **Global Journal of Computer and Engineering Technology (GJCET)**. 1(1):19-27.
12. (2021), "Classification of Coronary Artery Disease Using Multilayer Perceptron Neural Network". **International Journal of Applied Evolutionary Computation, IGI Global**. 12(3):35-43. DOI: 10.4018/IJAEC.2021070103
13. (2019), "Index Ranking and Performance Evaluation of Shanghai Stock Exchange (SSE) Using AHP and TOPSIS Method". **International Journal of Computer Sciences and Engineering (IJCSE)**. 7(3):19-23 (UGC Approved).
14. (2018), An Integrated Three Tier Architecture of AHP-GP for Stock Portfolio Management. **International Journal of Pure and Applied Mathematics**. 118(19):115- 122.(Scopus Indexed Journal)
15. (2017), Expert Portfolio System Using Integrated MCDM-GP Approach. **Review of Business and Technology Research**. 14(2): 1-6.
16. (2016), "Application of TOPSIS Method for Stock Index Ranking". **Journal of Global Information Technology**. 11 (1): 37-43. (UGC Approved)
17. (2015), "AHP Method Applied for Portfolio Ranking of Various Indices and Its Year Wise Comparison". **International Journal of Research Studies in Computer Science and Engineering (IJRSCSE)**. 53-57.

BOOK CHAPTER

1. (2021), "Lung Cancer Detection Using Deep Convolutional Neural Network" is published in **Springer Conference**, and published in Springer Lecture Notes in Network and System Series. (Scopus Indexed Book)
2. (2021), "Stacked Generalization Based Ensemble Model for Classification of Coronary Artery Disease" is presented in ICIoTCT, 2021 (**Springer Conference**), IIT Patna, India and published in Springer AISC Book Series. (Scopus Indexed Book)
3. (2016), "Comparative Analysis of AHP and Its Integrated Techniques Applied for Stock Index Ranking". **Proceedings of ICACNI 2016, Advances in Intelligent System and Computing, Springer**. 2:127-134. (Scopus Indexed Book)

CHAPTER IN EDITED BOOK

1. **(2023)**, Chapter entitled “**An interactive weight-based portfolio system using goal Programming**” in Mathematical Modeling, Machine Learning, and Intelligent Computing. for Industrial Development. CRC Press, Taylor and Francis Group.
2. **(2023)**, Chapter entitled “Deep Neural Network with Feature Optimization Technique for Classification of Coronary Artery Disease” in **edited book** entitled “**Computer Vision and Image Processing in the Deep Learning Era**”, IGI Global. DOI: 10.4018/978-1-7998-8892-5.ch016
3. **(2021)**, Chapter entitled “**Detection of Nodule and Lung Segmentation using Local Gobar XOR Pattern in CT Images**” in Artificial Intelligence and Machine Learning in 2d/3d Medical Image Processing, CRC Press, Taylor and Francis Group.

BOOK PUBLISHED

1. A Book named “**Application of Goal Programming (GP) in Stock Fund Diversification**” is published in LAMBERT Publication in 2021.

RESEARCH PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

1. (2024), “**Bombay Stock Exchange (BSE) Index Ranking using AHP and its Integrated Techniques**”, American Institute of Management and Technology Conference Proceedings (AIMTCP), 5(1):300-310.
2. (2023), “**A Survey on Machine Learning Based Predictive Systems for Mental Health**”, American Institute of Management and Technology Conference Proceedings (AIMTCP). 3(1):243.
3. **(2021)**, “**Call Data Record Analysis Using Microsoft Excel**”, Published in proceeding of American Institute of Management and Technology Conference Proceedings (AIMTCP), 2021.
4. **(2021)**, “**Classification of Coronary Artery Disease Using Deep Neural Network with Dimension Reduction Technique**”, Published in proceeding of 2021 2nd International Conference for Emerging Technology (INCET), **IEEE**. DOI: 10.1109/INCET51464.2021.9456322
5. **(2021)**, “**A Robust Model for Handwritten Digit Recognition using Machine and Deep Learning Technique**”. Published in proceeding of 2021 2nd International Conference for Emerging Technology (INCET), **IEEE**. [10.1109/INCET51464.2021.9456118](https://doi.org/10.1109/INCET51464.2021.9456118)
6. **(2020)**, “**A Survey of Deep Learning and Machine Learning Techniques for Handwritten Digit Recognition**”. Published in proceeding of International e-Conference on Artificial Intelligence, Network Secory and Data Sciences,(IeCAN-2020) ,India, **2020**, 227:234.
7. **(2021)**, “**An Integrated K-means-GP Approach for US Stock Fund Diversification**”. Published in **2020 Annual Conference proceedings, Decision Science in Age of Community**, 51st Annual Conference Of The Decision Sciences Institute. 51:1045-

Participation in National/International Conferences

1. Paper presented in International Conference on Innovation Research in Science, Management and Technology (ICIRSMT 2023), organized by Atal Bihari Vajpayee, India **2025**.
2. Paper presented in International Conference on Advancement in Science, Management Technology and Social Science (ICASMTSS 2023), organized by Sant Gahira Guru Vishwavidyalaya, Ambikapur, India **2023**.
3. Paper presented in International Conference on Innovation in Management, Science and Technology (ICIMST 2022), organized by University of Science and Technology Meghalaya, India **2022**.
4. Paper presented in 2nd International Conference on Emerging Technology (INCET 202), **IEEE**, Bangalore, India **2021**.
5. Paper presented in International Conference on Advancement on Interdisciplinary Research, Jaipur, India, **2020**.
6. Paper presented in International e-Conference on Artificial Intelligence, Network Secory and Data Sciences,(IeCAN-2020) ,India, **2020**.
7. Paper presented in International Conference on Innovative Research in Science, Management and Technology, Bilaspur (C.G.) , **2020**.
8. Paper presented (Online) in International Conference on Globalization and Competitive- ness in Business and Technology, Orlando, Florida, **2019**.
9. Paper presented (Online) in International Conference on Emerging Issues in Business Technology and Applied Science, Bangkok, **2018**.
10. Paper presented in International Conference on Innovative Research in Science, Management and Technology, Bilaspur (C.G.), **2018**.
11. Paper presented in International Conference on Advance Computing, Networking and informatics (ICACNI 2016), **Springer**, NIT Rourkela, September **2016**.
12. Paper presented in National Conference on Innovation and Research in Science, Management and Technology, Bilaspur (C.G.), **2015**.
13. Paper presented in National Conference on Intelligent Computing and Information System, Bilaspur (C.G.), **2009**.

Awards:

1. **The GKF Distinguish Service International Award 2021**, awarded by The Global Knowledge Foundation (GKF) USA, Inc.
2. **Best Paper Award** received in National Conference on Innovation and Research in Science, Management and Technology (IRSME-2015).