

Dr Muzafar Rasool Bhat

Assistant Professor



ADDRESS

Official

Department of Computer Science
Islamic University of Science and
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facebook.com/muzafarfromkashmir/

twitter.com/muzafar_rasool

PERSONAL INFO

Date of Birth

25 April 1979

Marital Status

Married

Nationality

Indian

Languages

English

Professional Working Proficiency

Urdu

Professional Working Proficiency

Kashmiri

Native Language

Arabic

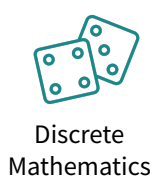
PROFILE

Experienced Computer Science Researcher working as an Assistant Professor in the Department of Computer Science at Islamic University of Science and Technology, Kashmir. I hold a Ph.D. degree in Artificial Intelligence, and MSc degrees in Computer Science and Mathematics. As a researcher and teacher, I am committed to preparing the next generation of computer scientists for success.

WORK EXPERIENCE

- 2019 - Present** ● **Assistant Professor**
Selection Grade
*Department of Computer Science
Islamic University of Science and Technology*
- Coordinator**
Center of Excellence, CIED
Islamic University of Science and Technology
- 2014 - 2019** ○ **Assistant Professor**
Sr. Scale
*Department of Computer Science
Islamic University of Science and Technology*
- 2010 - 2014** ○ **Incharge Head of the Department**
*Department of Computer Science
Islamic University of Science and Technology*
- 2008 - 2010** ○ **Assistant Professor**
*Department of Computer Science
Islamic University of Science and Technology*
- 2008** ○ **Probationary Officer**
CIAD, J&K Bank, J&K, India

EXPERTISE



AWARDS

Awarded Gold Medal for standing first in Poster Presentation
2nd Jammu and Kashmir Medical Science Congress 2017
National Level

SCHOLARS UNDER SUPERVISION

1. Abdul Basit Ahanger
2. Syed Wajid Aalam
3. Anayat Ullah Dar
4. Abdul Naffi Ahanger

MEMBERSHIPS

IEEE Member
Mathematical Society of Kashmir
BOS Cluster University

EDUCATION

- 2019 ○ **Doctor of Philosophy (PhD)**
Artificial Intelligence
Department of Computer Science
University of Kashmir, Srinagar
- Thesis**
Improving Probabilistic Topic Modeling for Large Archives and its Bioinformatics Application
- 2007 ○ **Master of Computer Applications**
Department of Computer Science
University of Kashmir, Srinagar
- 2003 ○ **Master of Science (MSc)**
Mathematics
Department of Mathematics
University of Kashmir, Srinagar
- 2001 ○ **Bachelor of Science (BSc)**
Govt Degree College Anantnag
University of Kashmir, Srinagar

COURSES TAUGHT



Machine Learning



Artificial Intelligence



Deep Learning



Soft Computing



Computer Graphics



Discrete Mathematics



Python



Numerical Techniques

Research Profile



H-Index

6

Citation Count

250

i10-Index

3

Publications

39

Reads

9,786

PUBLICATIONS

Recently Submitted

- [1] Uncovering Oncogenic Signalling Pathways from Radiomic Features in Glioblastoma Patients using Machine Learning

- [2] Tissue-based esophageal cancer classification using Transfer learning

- [3] Applications of Artificial Intelligence and Digital Holography in Biomedical Microscopy

- [4] "...the vaccine is perfect": Perception of Covid-19 Vaccination on Twitter

- [5] AlzhiNet: An Explainable Self-Attention Based Classification Model to Detect Alzheimer from 3D Volumetric MRI Data

- [6] Assessing Glioma Grading with Self-Attention: Comparative Analysis of the diagnostic potential of different MRI Sequences

- [7] Predicting Esophageal Cancer Metastasis: A Machine Learning Approach Using Clinical Data

- [8] Applications of Artificial Intelligence and Digital Holography in Biomedical Microscopy

- [9] IMBALCBL: Addressing Deep Learning Challenges with Small and Imbalanced Datasets.

- [10] From Scratch or Pretrained? An In-Depth Analysis of Deep Learning Approaches with Limited Data.

- [11] Addressing Imbalance Challenges in Histopathological Whole Slide Image Analysis with Advanced Deep Learning Sampling Techniques.

- [12] Optimizing Deep Reinforcement Learning in Data-Scarce Domains: A Cross-Domain Evaluation of Double DQN and Dueling DQN

Research Papers

- [1] Din, Nusrat Mohi Ud, Assif Assad, Rayees Ahmad Dar, Muzafar Rasool, Saqib Ul Sabha, Tabasum Majeed, Zahir Ul Islam, Wahid Gulzar, and Aamir Yaseen. "RiceNet: A deep convolutional neural network approach for classification of rice varieties." *Expert Systems with Applications* (2023): 121214.

- [2] Assad, Assif, Muzafar Rasool Bhat, Z. A. Bhat, Ab Naffi Ahanger, Majid Kundroo, Rayees Ahmad Dar, Abdul Basit Ahanger, and B. N. Dar. "Apple diseases: detection and classification using transfer learning." *Quality Assurance and Safety of Crops & Foods* 15, no. SP1 (2023): 27-37.

- [3] Bhat, Muzafar Rasool, Assif Assad, Ab Naffi Ahanger, Shabana Nargis Rasool, and Abdul Basit Ahanger. "Pashmina authentication on imagery data using deep learning." *AI & SOCIETY* (2023): 1-9.

- [4] Bhat Muzafar, et al. *Breast Cancer Detection using Deep Learning: Datasets, Methods and Challenges Ahead*. *Computers in Biology and Medicine* (2022).

- [5] Bhat, Muzafar, et al. "Sentiment analysis of Social Media Response on the Covid19 outbreak." *Brain, Behavior, and Immunity* (2020).

- [6] Muzafar Rasool Bhat*, Burhan Bashir , Majid A. Kundroo and Naffi A. Ahanger, "Understanding Twitter Hashtags from Latent Themes Using Biterm Topic Model", *Recent Patents on Engineering* (2019) 13:1.

Research Papers

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- [7] Bhat, Muzafar Rasool, et al. "Deep LDA: A new way to topic model." *Journal of Information and Optimization Sciences* 41.3 (2020): 823-834.
-
- [8] Tarray, Tanveer A., and Muzafar R. Bhat. "A nonlinear programming problem using branch and bound method." *Investigación Operacional* 38.3 (2018): 291-298.
-
- [9] Rasool Bhat, Muzafar, & M. Arif Wani. "Mixture Weighted Latent Dirichlet allocation, an Optimized and Generalized Probabilistic Model for Large Corpus of Data." *Artificial Intelligent Systems and Machine Learning [Online]*, 10.1 (2018): 8-17.
-
- [10] Tarray, Tanveer Ahmad, Muzafar Rasool Bhat, and Peer Bilal Ahmad. "An Adroit Strategy Randomized Response Model Using Fuzzy Numbers." *STATISTICS AND APPLICATIONS* 16.2 (2018): 49-63.
-
- [11] Shafi, Kh Muhammad, Muzafar Rasool Bhat, and Tariq Ahmad Lone. "Sentiment analysis of print media coverage using deep neural networking." *Journal of Statistics and Management Systems* 21.4 (2018): 519-527.
-
- [12] Bhat, Muzafar Rasool, and M. Arif Wani. "Weighted Latent Dirichlet Allocation, an Optimized and Generalized Probabilistic Topic Model." *Journal of Artificial Intelligence Research & Advances* 5.1 (2018): 18-31.
-
- [13] Tarray, Tanveer Ahmad, Muzafar Rasool Bhat, and Peer Bilal Ahmad. "New Randomized Response Procedure for Finding Optimal Solution Using Branch and Bound Method." *Journal of Statistics Applications and Probability* 6(3), (2017): 1-6.
-
- [14] Tarray, Tanveer Ahmad, and Muzafar Rasool Bhat. "A Nonlinear Programming Problem Applying LINGO." *International Journal of Emerging Technologies in Engineering Research (IJETER)* 5.10, (2017): 87-91
-
- [15] Tarray, Tanveer Ahmad, and Muzafar Rasool Bhat. "New Mathematical Strategy Using Branch and Bound Method." *Journal of Multiscale Modelling* 8.02 (2017): 1750005.
-
- [16] Tarray, Tanveer Ahmad, and Muzafar Rasool Bhat. "Finding Optimal Solution of a Linear Programming Problem Using Branch and Bound Method." *International Journal of Modern Mathematical Sciences* 14(4), (2016): 376-383.
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- [17] Bhat, Muzafar "Vector Space Modelling and Latent Semantic Indexing for textual information retrieval." *Journal of computer and information technology* 6(2), 2015: 15-22
-

Conference Papers

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- [1] N. M. U. Din, S. U. Sabha, **M. R. Bhat** and A. Assad, "Axillary Lymph Node Metastasis prediction Using Deep Reinforcement Learning on Primary Tumor Biopsy Slides," 2023 3rd International conference on Artificial Intelligence and Signal Processing (AISP), VIJAYAWADA, India, 2023, pp. 1-5, doi: 10.1109/AISP57993.2023.10135039.
-
- [2] S. U. Sabha, A. Assad, N. M. U. Din and **M. R. Bhat**, "Comparative Analysis of Oversampling Techniques on Small and Imbalanced Datasets Using Deep Learning," 2023 3rd International conference on Artificial Intelligence and Signal Processing (AISP), VIJAYAWADA, India, 2023, pp. 1-5, doi: 10.1109/AISP57993.2023.10134981.
-
- [3] T. Majeed et al., "Transfer Learning approach for Classification of Cervical Cancer based on Histopathological Images," 2023 3rd International conference on Artificial Intelligence and Signal Processing (AISP), VIJAYAWADA, India, 2023, pp. 1-5, doi: 10.1109/AISP57993.2023.10135048.
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Conference Papers

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- [4] Bhat Muzafar, et al. Pashmina Embroidery Classification Using Transfer Learning, International Conference on "Emerging Technologies in Computer Engineering: Industrial IoT and Cyber Physical Systems. 2023
-
- [5] Ahanger, Abdul Basit, Syed Wajid Aalam, Muzafar Rasool Bhat, and Assif Assad. "Popularity Bias in Recommender Systems-A Review." In Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT: 5th International Conference, ICETCE 2022, Jaipur, India, February 4–5, 2022, Revised Selected Papers, pp. 431-444. Cham: Springer International Publishing, 2022.
-
- [6] Aalam, Syed Wajid, Abdul Basit Ahanger, Muzafar Rasool Bhat, and Assif Assad. "Evaluation of Fairness in Recommender Systems: A Review." In Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT: 5th International Conference, ICETCE 2022, Jaipur, India, February 4–5, 2022, Revised Selected Papers, pp. 456-465. Cham: Springer International Publishing, 2022.
-
- [7] Understanding Twitter Usage During Covid19 and analysing perceptions, , International Conference on COVID-19 Studies in Social Sciences, Istanbul, Turkey, 2021.
-
- [8] Understanding Twitter Usage During Covid19 and analysing perceptions, , International Conference on COVID-19 Studies in Social Sciences, Istanbul, Turkey, 2021.
-
- [9] Deep LDA: A New Way to Topic Model, International Conference on Emerging Technologies in Computer Engineering "Microservices in Big Data Analytics " (ICETE-2019), SKIT, Jaipur, Rajasthan, 2019.
-
- [10] Genome Sequences and Theme Extraction Using Probabilistic Topic Modeling, International Conference on Applied Analysis and Mathematical Modeling, Istanbul GELISIM University, 2019.
-
- [11] Object Detection from Satellite Imagery Using Deep Learning, 5th International Conference on Computing for Sustainable Global Development, IEEE Conference Id: 42835, BVICAM, New Delhi, 2018.
-
- [12] Identification of Genes using Improved Approach on Gene Scan and Blast Algorithms, 5th International Conference on Computing for Sustainable Global Development, , IEEE Conference Id: 42835, BVICAM, New Delhi, 2018.
-
- [13] Deep Neural Networking Model for Sentiment Analysis of Print Media Coverage, 1st International Conference on Emerging Technologies in Computer Engineering (ICETE-2018), SKIT, Jaipur, Rajasthan, 2018.
-
- [14] Weighted Latent Dirichlet Allocation, an Improved Probabilistic Model for Large Corpus of Data, 5th International Conference on Computing for Sustainable Global Development, , IEEE Conference Id: 42835, BVICAM, New Delhi, 2018
-
- [15] Latent Dirichlet Allocation for Genome Sequences (I), 2nd J&K Medical Science Congress 2017, SKIMS, J&K, 2017
-
- [16] Latent Dirichlet Allocation for Genome Sequences (II), 2nd J&K Medical Science Congress 2017, SKIMS, J&K, 2017.
-
- [17] Algorithms for Sequence Alignment, 4th International Conference on Computing for Sustainable Global Development, IEEE Conference Id: 40353, BVICAM, New Delhi, 2017.
-
- [18] Genome Sequences, Vector Space Modelling and Topic Extraction, 4th international Conference on Recent Trends in Advances in Engineering and Technology (ICRAET 2017), SMVDU, J&K, 2017.
-
- [19] Evaluating Algebraic Model Based Information Retrieval Algorithms for Small and Large Datasets, 4th International Conference on Computing for Sustainable Global Development, IEEE Conference Id: 40353, BVICAM, New Delhi, 2017.
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- [20] A Nonlinear Programming Applying LINGO, 3rd international Conference on Recent Trends in Advances in Engineering and Technology (ICRAET 2016), organized by SMVDU, J&K, India, 2016.
-
- [21] Selecting Appropriate Number of Singular Values for Latent Semantic Indexing in Information Retrieval, 3rd international Conference on Recent Trends in Advances in Engineering and Technology (ICRAET 2016), SMVDU, J&K, India, 2016.
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PATENTS

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| [1] | Patent number: 202311050226
Title of invention: A SYSTEM AND METHOD FOR EARLY PREDICTION OF ESOPHAGEAL CANCER SUBTYPES FROM HISTOPATHOLOGY IMAGES |
| [2] | Patent number: 202311050849
Title of invention: SYSTEM AND METHOD FOR IDENTIFYING AND CLASSIFYING HANDMADE AND MACHINE-MADE RUGS USING AN ARTIFICIAL |
| [3] | Patent number: 20231027701A
Title of invention: An artificial intelligence/machine learning based system for predicting cervical cancer subtypes using haematoxylin and eosin whole slide images |
| [4] | Patent number: 202211045949
Title of invention: SYSTEM AND METHOD FOR IDENTIFICATION AND CLASSIFICATION OF HAND WOVEN AND MACHINE WOVEN FABRICS |
| [5] | Patent number: 202211036202
Title of invention: A SYSTEM FOR CLASSIFYING PADDY SEEDS AND METHOD THEREOF |
| [6] | Patent number: 202211016238
Title of invention: A SYSTEM FOR DETECTION OF DISEASE IN PLANTS AND ANALYSING TREATMENT PROCESS THEREOF |
| [7] | Patent number: 202211018901
Title of invention: SYSTEM AND METHOD FOR DETECTING AND CLASSIFYING PASHMINA SHAWL |
| [8] | Patent number: 2020102150
Title of invention: AN ARTIFICIAL INTELLIGENCE BASED SYSTEM FOR EMOTIONAL RECOGNITION |

COPYRIGHTS

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| [1] | Copyright for Artificial Intelligence based system for Pashmina artwork identification and classification |
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PROJECTS

S. NO	Title of the Project	Sponsoring Agency	Amount of the Project	Status
1	Establishment of an Interdisciplinary Science and Technology Research Program for Chronic Diseases	PURSE 2022	1000.00 Lac	On-Going
2	Enablement of High Performance Computing and e-Learning through IUST Cloud	Dept. of Higher Education, Govt. of J&K	1600.72 Lac	On-Going
3	Study of Magnetic Properties of Perovskites using Artificial Intelligence	SERB DST	33.77 Lac	On-Going
4	Quantitative Phase Imaging System	SERB DST	34.00 Lac	On-Going
5	Establishment of Center of Excellence for Innovation (CoEI)	RUSA, MHRD, Dept. of Higher Education, Govt. of J&K	1000.00 Lac	On-Going
6	Artificial Intelligence based Deep Learning Model to Predict Gastric Cancer Tumor	ICMR	22.00 Lac	On-Going
7	Authenticating Kashmiri Pashmina Using Deep Learning (Artificial Intelligence)	JKST&IC DST	9.39 Lac	On-Going
8	AI Enable Kashmiri Rug authentication	JKST&IC DST	1.50 Lac	On-Going

PROJECTS

S. NO	Title of the Project	Sponsoring Agency	Amount of the Project	Status
9	Probabilistic Topic Modeling of Large Text Corpora using Weighted Latent Dirichlet Allocation for Theme Based Information Retrieval	IUST	2.80 Lac	Completed
10	Apple Disease Diagnosis and Recommendation (ADDR)	IUST	5.80 Lac	Completed
11	Predicting Online Doctor Ratings from User Reviews Using Deep Neural Networks	IIC, IUST	3.80 Lac	Completed
12	Predicting Student Performance using Data Science Techniques	DIC, IUST	0.60 Lac	Completed