MOHD ANUL HAQ

Associate Professor of Computer Science; Artificial Intelligence; Data Science; Machine Learning

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SUMMARY

In my multidisciplinary journey in academics, I purposefully leverage the transformative capabilities of Artificial Intelligence (AI), Data Science, and Machine Learning (ML) to overcome a diverse array of challenges. My scholarly pursuits span pioneering advancements in healthcare, fortifying cybersecurity against emerging threats in IoT and Android systems, and delving into the complex issue of Geo-AI. Notably, I integrate the analytical prowess of Big Data into environmental studies, augmenting the depth and complexity of my research interests within the academic landscape of Artificial Intelligence, Data Science, and Machine Learning.

EDUCATION

- **Ph.D. in Computer Science-Artificial Intelligence** **Jan 2010 – Sep 2013**
  Indian Institute of Technology Roorkee, India
  Thesis advisors: Prof. Kamal Jain

- **Masters in Computer Applications,** **July 2004-Oct 2007,**
  Department of Computer Science and Applications, Uttar Pradesh Technical University, Lucknow, India

RESEARCH EXPERIENCE

- **Associate Professor:** **December 2019 – Present;**

Department of Computer Science, College of Computer and Information Sciences, Al-Majmaah University, Saudi Arabia.

Specializations: Artificial Intelligence, Data Science, Machine Learning

- At Al-Majmaah University, Saudi Arabia, I have embraced the role of an Associate Professor with a commitment to advancing the frontiers of knowledge. My focus on Artificial Intelligence, Data Science, and Machine Learning aligns with the university's ethos of academic excellence and innovation. Engaged in shaping the intellectual discourse, I strive to create an environment that fosters not only learning but also a culture of critical thinking and research exploration.
- Conducted research on stochastic forecasting of variable small data for early cyber epidemic analysis. Utilized insights to analyze an early stage of cyber epidemics, contributing to Scientific Reports [1]
- Collaborated on DCNNBT, a novel deep convolution neural network-based model for brain tumor classification. Published findings in Fractals, showcasing advancements in medical imaging [2]
- Investigated U-Net-Based models for optimal MR brain image segmentation, demonstrating a contribution to Diagnostics [3].
- Explored implicit deauthentication of smartphone users from sensitive apps, emphasizing security measures against active adversaries (Publication pending) [4]
- Explored continuous user authentication through mouse movement patterns, contributing to

Computational Systems Science and Engineering [5]

- **Associate Professor:** **December 2017 – December 2019;**

Computer Science, NIIT University, India

- Specializations: Artificial Intelligence, Data Science, Machine Learning
- During my tenure at NIIT University in India, I continued my academic journey as an Associate Professor. This period marked a crucial phase of professional growth, where I actively participated in research endeavors that extended beyond the traditional boundaries of academia. Specializing in Artificial Intelligence, Data Science, and Machine Learning, I sought to impart not just knowledge but a spirit of inquiry and innovation among students.
- Snow Properties Modeling with Hyperspectral Imagery. Applied artificial neural network-based modeling to analyze snow properties using field data and hyperspectral imagery. Contributed to Natural Resource Modeling, showcasing expertise in environmental modeling [64].

- Watershed Morphometric Analysis. Conducted morphometric analysis of the Nanganji River Basin in Tamil Nadu, India, utilizing remote sensing and GIS. Published findings in the Arabian Journal of Geosciences, highlighting skills in hydrological research [65].

- Permafrost Distribution Study (Geomorphology, 2019) Investigated permafrost distribution in Sikkim Himalayas using Sentinel-2 satellite images and logistic regression modeling. Contributed to Geomorphology and demonstrated proficiency in remote sensing and geospatial analysis [66].

- **Assistant Professor:** **September 2013 – December 2017;**

Computer Science, NIIT University, India

- Specializations: Artificial Intelligence, Data Science, Machine Learning
- Embarking on my academic career as an Assistant Professor at NIIT University, India, I laid the foundation for a trajectory committed to excellence in both teaching and research. Specializing in Artificial Intelligence, Data Science, and Machine Learning, I played a pivotal role in nurturing the academic aspirations of students while consistently advancing my own research pursuits. This phase not only honed my teaching skills but also deepened my commitment to contributing significantly to the academic community.

- **Software Trainer:** **July 2007 – August 2009;**

HCL Career Development Centre, Noida, Roorkee, India.

- Facilitating learning experiences in Noida and Roorkee, India
- My professional journey commenced with a role as a Software Trainer at HCL Career Development Centre. During this foundational period, I contributed to the skill development of aspiring professionals in the ever-evolving field of software technology. This early experience laid the groundwork for my subsequent roles in academia, emphasizing the importance of practical knowledge and hands-on expertise.

RESEARCH FUNDING (INTERNAL AND EXTERNAL)

S.N.	Title	Sponsoring Agency	Project Duration	Grant awarded (Equivalent SAR)
1	DCNNBT: A Novel Deep Convolution Neural Network-Based Brain Tumor Classification Model	Ministry of Education, KSA and Majmaah University, ID: IFP-2020-96	Dec 2022-March 2023	**14,400**
2	DNNBoT: Deep Neural Network-Based Botnet Detection and Classification	DSR, Majmaah University, ID: R-2021-220.	Jan 2021-Dec 2021	**9,600**
3	Development of PCCNN-Based Network Intrusion Detection System for EDGE Computing	DSR, Majmaah University, ID: R-2021-117	Jan 2021-Dec 2021	**9,600**
4	Modeling of Crop Selection Based on Environmental and associated parameters using Machine Learning	Ministry of Education, KSA and Majmaah University, ID:2020-14.	Aug 2020-July 2021	**26,400**
5	CDLSTM: A Novel Model for Climate Change Forecasting	DSR, Majmaah University, ID: R-2021-236	Jan 2021-Dec 2021	**9,600**
6	SMOTEDNN: A Novel Model for Air Pollution Forecasting and AQI Classification	DSR, Majmaah University, ID: R-2021-202	Jan 2021-Dec 2021	**9,600**
7	Efficiency of artificial neural networks for glacier ice-thickness estimation: A case study in western Himalaya, India	DSR, Majmaah University, ID: R-2021-10	Jan 2020-Dec 2020	**9,600**
8	AI based Modeling the snow properties for their classification and identification	DST, Govt. of India. ID:BDID/01/23/2014-HSRS	21 April 2016-01 Dec 2020	**1,72,234**
9	Understanding the Geomorphology of Martian Surface using Mars Orbiter Mission Datasets	Indian Space Research Organization, Govt. of India. ID: ISRO/SSPO/MOM-AO/2016/17	10 Oct 2016-10 Oct 2019	**89,000**
10	Using Artificial Intelligence and Cloud Computing to Monitor Groundwater Resources in Rajasthan, India	Microsoft Inc. Redmond. US	06 April 2019 to 1 Dec 2020	**45,000**
11	Coupling GPR Measurements and ANN Modelling for Mountain Glacier Volume Assessment in India and Russia	DST-Russian Foundation of Science	2016	**1,20,866**
12	Development of Glacial Lake Monitoring Techniques in The Uttarakhand Himalayas Using Geomatics Techniques	NIIT University, India	15 Sep 2014-14 March 2016	**18,532**
13	Glacial Lake Monitoring Techniques in The Uttarakhand Himalayas Using Geomatics Technique ID: 29121	European Space Agency	17 Dec 2014 to 1 Nov 2015	**40,000 (worth of ERS data)**

PUBLICATIONS, GOOGLE SCHOLAR CITATION COUNT: 2000+, I10-INDEX: 57, H-INDEX:26

JOURNAL PUBLICATIONS (ISI / JCR IMPACT FACTOR PUBLISHED PAPERS)

1) Kovtun, V., Grochla, K., Kharchenko, V., Haq, M. A., & Semenov, A. (2023). Stochastic forecasting of variable small data as a basis for analyzing an early stage of a cyber epidemic. *Scientific Reports*, *13*(22810), 1–15.
2) Haq, M. A., Khan, I., Ahmed, A., Eldin, S. M., Alshehri, A., & Ghamry, N. A. (2023). DCNNBT: a novel deep convolution neural network-based brain tumor classification model. *Fractals*.
3) Segmentation, I., Yousef, R., Khan, S., Gaurav Gupta, T. S., Albahlal, B. M., Alajlan, S. A., & Haq, M. A. (2023). U-Net-Based Models towards Optimal MR Brain Image Segmentation. *Diagnostics*, *13*(9), 1624.
4) Haq, M. A. (2023). DBoTPM: A Deep Neural Network-Based Botnet Prediction Model. *Electronics*, *12*(5), 1159.
5) Ansar, S. A., Aggarwal, S., Arya, S., Haq, M. A., Mittal, V., & Gared, F. (2023). An intuitionistic approach for the predictability of anti-angiogenic inhibitors in cancer diagnosis. *Scientific Reports*, *13*(7051), 1–14.
6) Haq, M. A., Hassine, S. B. H., Malebary, S. J., Othman, H. A., & Tag-Eldin, E. M. (2023). 3D-CNNHSR: A 3-Dimensional Convolutional Neural Network for Hyperspectral Super-Resolution. *Comput. Syst. Sci. Eng*, *47*, 2689–2705.
7) Saleem, R. M., Bashir, R. N., Faheem, M., Haq, M. A., Alhussen, A., Alzamil, Z. S., & Khan, S. (2023). Internet of Things Based Weekly Crop Pest Prediction by Using Deep Neural Network. *IEEE Access*.
8) Sharma, N., Haq, M. A., Dahiya, P. K., Marwah, B. R., Lalit, R., Mittal, N., & Keshta, I. (2023). Deep Learning and SVM-Based Approach for Indian Licence Plate Character Recognition. *Computers Materials and Continua*, *74*(1), 881–895.
9) K. Kavin Kumar P. M. Dinesh, P. R. L. V. R. D., & Haq, M. A. (2023). Brain tumor identification using data augmentation and transfer learning approach. *Computer Systems Science and Engineering*, *46*(2), 1845–1861.
10) Alabdulwahab, A., Haq, M. A., & Alshehri, M. (2023). Cyberbullying Detection using Machine Learning and Deep Learning. *International Journal of Advanced Computer Science and Applications*, *14*(10), 424–432.
11) Usman, A., Muhammad, J. A., Faizan Ahmed, K., Arfat Ahmad, K., Arif, U. R., Malik, M. A. S., Mohd Anul, H., Ilyas, K., Zamil, S. A., & Ahmed, A. (2023). Large Scale Fish Images Classification and Localization using Transfer Learning and Localization Aware CNN Architecture. *Computer Systems Science and Engineering*, *45*(2), 2125–2140.
12) Kumar, S., Haq, M. A., Jain, A., Jason, C. A., Moparthi, N. R., Mittal, N., & Alzamil, Z. S. (2023). Multilayer Neural Network Based Speech Emotion Recognition for Smart Assistance. *Computers Materials and Continua*, *74*(1), 1523–1540.
13) Haq, M. A., Ahmed, A., & Gyani, J. (2023). Implementation of CNN for Plant Identification using UAV Imagery. *International Journal of Advanced Computer Science and Applications*, *14*(2), 369–378.
14) Shakti Raj Chopra Parulpreet Singh Ahmed Alhussen, N. M., & Haq, M. A. (2023). Power Optimized Multiple-UAV Error-Free Network in Cognitive Environment. *Computers Materials and Continua*, *75*(2), 3189–3201.
15) Anubha, Bedi, R. P. S., Khan, A. A., Haq, M. A., Alhussen, A., & Alzamil, Z. S. (2023). Efficient Optimal Routing Algorithm Based on Reward and Penalty for Mobile Adhoc Networks. *Computers Materials and Continua*, *75*(1), 1331–1351.

16) Zhang, X., Beram, S. M., Haq, M. A., Wawale, S. G., & Buttar, A. M. (2022). Research on algorithms for control design of human--machine interface system using ML. *International Journal of System Assurance Engineering and Management*, *13*(1), 462–469.
17) Filho, H. de O., Oliveira-Júnior, J. F. de, Silva, M. V. da, Jardim, A. M. da R. F., Shah, M., Gobo, J. P. A., Blanco, C. J. C., Pimentel, L. C. G., da Silva, C., da Silva, E. B., & others. (2022). Dynamics of Fire Foci in the Amazon Rainforest and Their Consequences on Environmental Degradation. *Sustainability*, *14*(15), 9419.
18) Haq, M. A., & Ahmed, A. (2022). On Interesting Correlation between Meteorological Parameters and COVID-19 Pandemic in Saudi Arabia. *International Journal of Computer Science and Network Security*, *22*(4), 1–10.
19) Mangan, P., Pandi, D., Haq, M. A., Sinha, A., Nagarajan, R., Dasani, T., Keshta, I., & Alshehri, M. (2022). Analytic Hierarchy Process Based Land Suitability for Organic Farming in the Arid Region. *Sustainability*, *14*(4542), 1–16.
20) Patki, V., Mehbodniya, A., Webber, J. L., kuppusamy, A., haq, M. anul, kumar, A., & Karupusamy, S. (2022). Improving the geo-drone-based route for effective communication and connection stability improvement in the emergency area ad-hoc network. *Sustainable Energy Technologies and Assessments*, 1–7.
21) Paliwal, P., Webber, J. L., Mehbodniya, A., Haq, M. A., Kumar, A., & Chaurasiya, P. K. (2022). Multi-agent-based approach for generation expansion planning in isolated micro-grid with renewable energy sources and battery storage. *The Journal of Supercomputing*, 1–27.
22) Haq, M. A. (2022). Optimal cluster head selection for energy efficient wireless sensor network using hybrid competitive swarm optimization and harmony search algorithm. *Sustainable Energy Technologies and Assessments*, *52*(102243), 1–5.
23) Haq, M. A. (2022). CDLSTM: A novel model for climate change forecasting. *Computers, Materials and Continua*, *71*(2), 2363–2381. https://doi.org/10.32604/cmc.2022.023059
24) Haq, M. A. (2022). Fine-tuned convolutional neural network for different cardiac view classification. *The Journal of Supercomputing*, 1–18.
25) Selvin Shabu Lilly Pushpam Jany Shabu Kusum Yadav, E. K. K. K. G. M. A. A. K. (2022). Trajectory clustering and query processing analysis framework for knowledge discovery in cloud environment. *Expert Systems*, *12968*.
26) Gyani, J., Haq, M. A., & Ahmed, A. (2022). Analyzing the Impact of Lockdown on COVID-19 Pandemic in Saudi Arabia. *International Journal of Computer Science and Network Security*, *22*(4), 1–8.
27) JIANG, W. E. I., LI, M., SHABAZ, M., SHARMA, A., & HAQ, M. A. (2022). Generation of Voice Signal Tone Sandhi and Melody Based on Convolutional Neural Network. *ACM Transactions on Asian and Low-Resource Language Information Processing*, 1–16.
28) Haq, M. A. (2022). Optimizing hybrid metaheuristic algorithm with cluster head to improve performance metrics on the IoT. *Theoretical Computer Science*, 1–15.
29) Haq, M. A., Alhussen, A., & Alzamil, Z. S. (2022). Multi-Class Pixel Certainty Active Learning Model for Classification of Land Cover Classes Using Hyperspectral Imagery. *Electronics*, *11*, 2798.
30) Gyani, J., Ahmed, A., & Haq, M. A. (2022). MCDM and Various Prioritization Methods in AHP for CSS: A Comprehensive Review. *IEEE Access*, *10*(Mcdm), 33492–33511. https://doi.org/10.1109/access.2022.3161742
31) Haq, M. A. (2022). Planetscope Nanosatellites Image Classification Using Machine Learning. *Computer Systems Science and Engineering*, *42*(3), 1031–1046.
32) Haq, M. A., Khan, M. A. R., & Alshehri, M. (2022). Insider Threat Detection Based on NLP Word Embedding and Machine Learning. *Intelligent Automation and Soft Computing*, *33*(1), 619–635.
33) Kriti Mohd Anul Haq, U. G. M. A. R. K. V. R. (2022). Fusion-Based Deep Learning Model for Hyperspectral Images Classification. *Computer Materials and Continua*, *71*(1), 939–957.
34) E Balamurugan Abolfazl Mehbodniya, E. K. K. Y. A. K. M. A. H. (2022). Network Optimization Using Defender System in Cloud Computing Security Based Intrusion Detection System withGame Theory Deep Neural Network (IDSGT-DNN). *Pattern Recognition Letters*, *1016*.
35) Haq, M. A. (2022). Machine Learning-based Classification of Hyperspectral Imagery. *International Journal of Computer Science and Network Security*, *22*(4), 1–10.

36) Jawaharlalnehru, A., Sambandham, T., Sekar, V., Ravikumar, D., Loganathan, V., Kannadasan, R., Khan, A. A., Wechtaisong, C., Haq, M. A., Alhussen, A., & others. (2022). Target Object Detection from Unmanned Aerial Vehicle (UAV) Images Based on Improved YOLO Algorithm. *Electronics*, *11*(15), 2343.
37) Kumar, A., Alghamdi, S. A., Mehbodniya, A., haq, M. anul, Webber, J. L., & Shavkatovich, S. N. (2022). Smart power consumption management and alert system using IoT on big data. *Sustainable Energy Technologies and Assessments*, 1–7.
38) Arunnehru, J., Thalapathiraj, S., Dhanasekar, R., Vijayaraja, L., Kannadasan, R., Khan, A. A., Haq, M. A., Alshehri, M., Alwanin, M. I., & Keshta, I. (2022). Machine Vision-Based Human Action Recognition Using Spatio-Temporal Motion Features (STMF) with Difference Intensity Distance Group Pattern (DIDGP). *Electronics*, *11*(2363), 1–23.
39) Haq, M. A. (2022). Data reinforcement control technique-based monitoring and controlling of environmental factors for IoT applications. *Arabian Journal of Geosciences*, *15*(620), 1–8.
40) Murugavel, K. D., Ramadass, P., Mahendran, R. K., Khan, A. A., Haq, M. A., 5, S. A., & Alhussen, A. (2022). Maintaining Effective Node Chain Connectivity in the Network with Transmission Power of Self-Arranged AdHoc Routing in Cluster Scenario. *Electronics*, *11*(2455), 1–11.
41) Sathishkumar Karupusamy J. Refonaa, S. S. P. D. M. A. H. A. K. (2022). Effective energy usage and data compression approach using data mining algorithms for IoT data. *Expert Systems*, *12997*, 1–10.
42) Sekar, K. R., M, N., Haq, M. A., Kumar, A., Shalini, D., & Poojalaxmia, S. (2022). An Improved Ranking Methodology For Malignant Carcinoma In Multicriterian Decision Making Using Hesitant VIKOR Fuzzy. *Theoretical Computer Science*.
43) Haq, M. A. (2022). Spatiotemporal Analysis of Fire Foci and Environmental Degradation in the Biomes of Northeastern Brazil. *Sustainability*, *14*(6935), 1–20.
44) Haq, M. A. (2022). A Review on Deep Learning Techniques for IoT Data. *Electronics*, *11*(1604), 1–23.
45) Haq, M. A., Ahmed, A., Khan, I., Gyani, J., Mohamed, A., Attia, E.-A., Mangan, P., & Pandi, D. (2022). Analysis of environmental factors using AI and ML methods. *Scientific Reports*, *12*(1), 13267.
46) Haq, M. A. (2022). CNN Based Automated Weed Detection System Using UAV Imagery. *Computer Systems Science and Engineering*, *42*(2), 837–849.
47) Yadav, C. S., Singh, J., Yadav, A., Pattanayak, H. S., Kumar, R., Khan, A. A., Haq, M. A., Alhussen, A., & Alharby, S. (2022). Malware Analysis in IoT \& Android Systems with Defensive Mechanism. *Electronics*, *11*(15), 2354.
48) Liu, P., & Haq, M. A. (2022). Big Earth Data Intelligence for Environmental Modeling. *Frontiers of Environmental Science*, 1–4.
49) Haq, M. A., & Khan, M. Y. A. (2022). Crop Water Requirements with Changing Climate in an Arid Region of Saudi Arabia. *Sustainability*, *14*(13554), 1–24.
50) Ahmed, A., Haq, M. A., Polala, N., Shankar, V., & Gyani, J. (2022). CBES: A framework for Cloud-based E-learning System at SaaS Level. *IJCSNS*, *22*(11), 651.
51) Haq, M. A., Baral, P., Yaragal, S., & Pradhan, B. (2021). Bulk processing of multi-temporal modis data, statistical analyses and machine learning algorithms to understand climate variables in the indian himalayan region. *Sensors*, *21*(21). https://doi.org/10.3390/s21217416
52) Haq, M. A. (2021). Deep Learning Based Modeling of Groundwater Storage Change. *Computers Materials and Continua*, *70*(3), 4599–4617.
53) Haq, M. A. (2021). *Fusion artificial neural network model for determining influencing pollutant in smart cities environment*.
54) Haq, M. A. (2021). SMOTEDNN: A Novel Model for Air Pollution Forecasting and AQI Classification. *Computers Materials and Continua*, *71*(1), 1403–1425.
55) Haq, M. A. (2021). Development of PCCNN-Based Network Intrusion Detection System for EDGE Computing. *Computers Materials and Continua*, *71*(1), 1729–1750.
56) Haq, M. A., Azam, M. F., & Vincent, C. (2021). Efficiency of artificial neural networks for glacier ice-thickness estimation: A case study in western Himalaya, India. *Journal of Glaciology*, *67*(264), 671–684. https://doi.org/10.1017/jog.2021.19

57) Haq, M. A., Alshehri, M., Rahaman, G., Ghosh, A., Baral, P., & Shekhar, C. (2021). Snow and glacial feature identification using Hyperion dataset and machine learning algorithms. *Arabian Journal of Geosciences*, *14*(15), 1–21.
58) Haq, M. A. (2021). DNNBoT: Deep Neural Network-Based Botnet Detection and Classification. *Computers Materials and Continua*, *71*(1), 1769–1788.
59) Baral, P., Haq, M. A., & Yaragal, S. (2020). Assessment of rock glaciers and permafrost distribution in Uttarakhand, India. *Permafrost and Periglacial Processes*, *31*(1), 31–56.
60) Haq, M. A., Rahaman, G., Baral, P., & Ghosh, A. (2020). Deep Learning Based Supervised Image Classification Using UAV Images for Forest Areas Classification. *Journal of the Indian Society of Remote Sensing.*, *49*(https://doi.org/10.1007/s12524-020-01231), 601–606.
61) Baral, P., & Haq, M. A. (2020). Spatial prediction of permafrost occurrence in Sikkim Himalayas using logistic regression, random forests, support vector machines and neural networks. *Geomorphology*, *371*, 107331. https://doi.org/10.1016/j.geomorph.2020.107331
62) Haq, M. A., Baral, P., Yaragal, S., & Rahaman, G. (2020). Assessment of trends of land surface vegetation distribution, snow cover and temperature over entire Himachal Pradesh using MODIS datasets. *Natural Resource Modeling*, *33*(2). https://doi.org/10.1111/nrm.12262
63) Haq, M. A., Ramiz, M., & Siddiqui, M. A. (2020). An assessment of the snout behavior of Satopanth and Bhagirathi Kharak Glacier, Garhwal Himalaya. *Hill Geographer*, *36*(1), 15–30.
64) Haq, M. A., Ghosh, A., Rahaman, G., & Baral, P. (2019). Artificial neural network-based modeling of snow properties using field data and hyperspectral imagery. *Natural Resource Modeling*, *32*(4). https://doi.org/10.1111/nrm.12229
65) Mangan, P., Haq, M. A., & Baral, P. (2019). Morphometric analysis of watershed using remote sensing and GIS—a case study of Nanganji River Basin in Tamil Nadu, India. *Arabian Journal of Geosciences*, *12*(6), 1–14.
66) Haq, M. A., & Baral, P. (2019). Study of permafrost distribution in Sikkim Himalayas using Sentinel-2 satellite images and logistic regression modelling. *Geomorphology*, *333*, 123–136. https://doi.org/10.1016/j.geomorph.2019.02.024
67) Haq, M. A., Jain, K., & Menon, K. P. R. (2014). Modelling of Gangotri glacier thickness and volume using an artificial neural network. *International Journal of Remote Sensing*, *35*(16), 6035–6042. https://doi.org/10.1080/01431161.2014.943322
68) Haq, M., Jain, K., & Menon, K. (2012). Development of New Thermal Ratio Index for Snow/Ice Identification. *International Journal of Soft Computing*, *1*(6), 282–285. http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.644.2968&rep=rep1&type=pdf%0Ahttp://www.doaj.org/doaj?func=fulltext&aId=949542

PATENTS (PUBLISHED/GRANTED)

1) Patent Number: **2021104641**; Title of Invention: Fusion Artificial Neural Network Model for Determining Influencing Pollutant in Smart Cities Environment; *Australian Patent* (Status Granted):
2) Patent Number: **202111056643**; Title of Invention: Blockchain-Based Methodology for Transmission of Scanned Image Over Data Network to a File Server; *Indian Patent* (Status Published)

SELECTED ORAL PRESENTATIONS

1) "Digital Earth Solutions for Sustainable Development: A Multidimensional Exploration" Keynote Speaker at the 2023 Belt and Road Forum on Digital Earth, East Bay International Center, Beijing, China, December 6–8, 2023.
2) "Applications of Machine Learning and Deep Learning Techniques in Environmental Modeling and Forecasting" Keynote Speaker at the International Faculty Development Program, Graphic

Era University, India, May 16, 2023.

3) "Artificial Intelligence (AI) and the Internet of Things (IoT) for Environmental Monitoring" Keynote Speaker at Jamia Millia Islamia, UGC-HRDC, August 2, 2022.
4) "Artificial Intelligence (AI) and Machine Learning(ML) for Sustainable Water Towers of Asia" Keynote Speaker at International Conference on Emerging Trends in Digital Technologies, Jan 09, 2021.
5) "Artificial Intelligence and Machine Learning for Environmental Monitoring" Keynote Speaker at Jamia Millia Islamia, UGC-HRDC, December 24, 2021.
6) "Artificial Intelligence in Reliability and Maintenance" Keynote Speaker at the Saudi Aramco EWPD Reliability Forum, September 6, 2020.
7) "Artificial Intelligence and Machine Learning in Cryospheric Sciences" Keynote Speaker at Jamia Millia Islamia, UGC-HRDC, October 17, 2020.
8) "Microsoft AI for Earth Summit and Hackathon" Project presentation on AI for Water, Redmond, WA, US, October 14–17, 2019, Microsoft Inc.
9) “Convergence of IoT, Big Data, AI, and ML for societal Benefits," NU Doctoral Symposium, NIIT University, April 6-7, 2019.
10) "GeoAI AI and Machine Learning," NU Doctoral Symposium, NIIT University, April 6-7, 2019.
11) "AI and Deep Learning for Snow Properties Modeling," 2nd AI and IoT Summit, New Delhi, June 5-6, 2018, GMC Intl.
12) "Artificial Intelligence and Machine Learning for sustainable water resources," Technology Foresight Group, Goa, October 5, 2018, Tandem Research Aldona, Goa Intl
13) "Basics of Artificial Intelligence and IoT," HARSAC, Hisar, ISRO, June 13, 2018
14) "Artificial Intelligence and Geospatial Technology," HARSAC, Hisar, ISRO, June 13, 201
15) "Artificial Intelligence and Machine Learning for Sustainable Water Resources" Invited and Sponsored at AI for Sustainability, Technology Foresight Group, Goa, October 4–5, 2018.
16) "Utilization of AI and IoT Techniques in the Geospatial Domain" Invited and Sponsored at the 2nd AI and IoT Summit, Geospatial Media and Communications, New Delhi, June 5–6, 2018.
17) "Climate Change and Glaciers" Invited and Sponsored at the 1st 3-Week Refresher Course in Climate Change (Inter-disciplinary), UGC-HRD Centre, JMI, New Delhi, March 04, 2017.

SELECTED INVITED TALKS

1)	Mumbai University,	Date: 29/02/2016
2)	University of Pune,	Date: 01/03/2016
3)	Xaviers College, Mumbai	Date: 02/03/2016
4)	H.P.T & R.Y.K Science College,	Date: 10/03/2016
5)	Ahmednagar College,	Date: 11/03/2016
6)	New Arts Comm. and Science College, Ahmednagar,	Date: 11/03/2016
7)	University of Calcutta,	Date: 06/01/16
8)	Jadavpur University,	Date: 06/01/16
9)	Institute of Engineering and Management, Kolkata	Date: 17/02/15
10)	University of Calcutta, Kolkata,	Date: 18/02/15
11)	University of Pune,	Date: 18/9/14
12)	Dr. Harisingh Gour University, Sagar,	Date: 30/9/14

SELECTED RECENT AWARDS AND HONORS

- Sponsored and invited by the Chinese Academy of Sciences to attend the 2023 Belt and Road Forum on Digital Earth, Beijing, China. **12/2023:**
- Among Top 2% Scientists Worldwide, Year 2023 and 2024 by Stanford University and Elsevier. **10/2023:**

- Awarded sponsorship and travel grant to participate at Microsoft AI for Earth Summit and Hackathon in Redmond, WA, US from Oct 14-17, 2019, from Microsoft Inc. **12/2019:**
- Certificate of appreciation for outstanding performance at NCAAA quality visit and developing the different handbooks for the academic process, March 2021 from the College of Computer and Information Sciences, Majmaah University. **3/2021:**
- Outstanding Researcher Award for the academic year 2023 from the College of Computer and Information Sciences, Majmaah University. **7/2021:**
- Awarded sponsorship and travel grant to participate at 39th ACRS, Kuala Lumpur, Malaysia, 15-19 October 2018 **10/2018:**
- Best Teacher Award for 2015-16, awarded on Feb 23, 2016, NIIT University, India. **2/2016:**
- Selected for IEEE Travel funding for paper presentation in IEEE IGARSS, Melbourne, Australia, 21 to 26 July 2013. **7/2013:**
- Selected for DST Travel grant scheme to attend the 35th ISRSE Conference, Beijing, 22 to 26 April 2013. **4/2013**:
- Won 1st Prize for the best paper presentation in ESRI UC Dec 5-7, 2011, Noida, India. **7/2011:**
- Selected for ISPRS Summer School sponsorship and travel funding, Burpha University, Thailand, Dec 2011. **12/2011:**
- Research fellowship in Engineering and Technology from University Grants Commission (UGC), MANF, India. **01/2010:**
- Won EXplore Web Development Award conducted by Everest Infosoft Pvt. Ltd, 8 Dec 2008. **12/2008:**

TEACHING EXPERIENCES

- **Associate Professor** **December 2019– Present**

Faculty of Computer Science Department, College of Computer Science and Information Science, Majmaah University, Al-Majmaah.

- Department of Computer Science, Majmaah University, Saudi Arabia Within the academic framework at Majmaah University, I take pride in my role as an instructor for bachelor-level track courses in Artificial Intelligence and Data Science, and master's-level courses in Cybersecurity and Data Science.
- Developed and enhanced course materials, ensuring relevance to the latest advancements in Artificial Intelligence, Data Science, and Cybersecurity.
- Pioneered the introduction of innovative topics to enrich the department's curriculum.
- Spearheaded the design, development, and implementation of captivating courses and teaching materials, enriching the learning experience for undergraduates.
- Executed policies, strategies, and procedures in alignment with University and International accreditation bodies' regulations, ensuring the effective delivery of teaching programs.
- Fostered an environment of interactive learning through innovative lectures, LAB sessions, and hands-on approaches. Utilized creative lesson planning and individualized education plans to engage students actively.
- Played a pivotal role in the development, administration, and marking of exams and assessments. Provided personalized one-on-one feedback on academic performance, reinforcing a culture of continuous improvement.
- Demonstrated commitment to academic excellence as a Quality Assurance committee member, addressing standards related to student learning outcomes, administration, and support services.
- Conducted impactful research, securing funding support from diverse agencies, and contributed to publications, elevating the department's scholarly profile.
- Supervised and supported undergraduate and masters+'s research projects, nurturing the creative potential of each student. Active participation in the Students Advisory Committee underscored dedication to student success.
- Actively participated the student advising activities, offering essential support to students.

- Engaged in the administration of departmental committees and activities, contributing to the overall academic ecosystem.
- Maintained a commitment to continuous professional development, ensuring currency in pedagogical methodologies and subject matter expertise.
- Played a key role as a Committee member for the strategic planning unit, contributing to the department's long-term vision and goals.
- Excelled as the Coordinator for the student activity and community service unit, emphasizing holistic development and community engagement.
- Committed to the safety and well-being of the academic community, actively promoting awareness and adherence to fire, health, and safety regulations.
- Innovatively designed exams, assessments, and course content, employing exceptional communication techniques to enhance student engagement.
- Motivated and inspired students to cultivate a thirst for knowledge, fostering skills in reflection, critical thinking, and analysis.
- Updated curriculum to reflect contemporary issues, topics, and industry advancements, ensuring relevance and currency.
- Recruited students through impactful presentations at open days and off-site promotional events, contributing to enrollment success.
- Monitored students' progress, implementing positive interventions to maximize their educational attainment and well-being.
- Offered academic and pastoral support, recognizing and addressing the unique needs of students requiring additional assistance.
  Utilized varied teaching strategies to cater to the diverse educational needs of both young adults and mature students, resulting in increased course attendance, retention, and improved grades.
- Organized educational activities and events that not only drove learning objectives but also promoted active student engagement.
- Instructed undergraduate courses including CS460: Computer Vision, CS462: Machine Learning, CS470: Introduction to Data Science, CS473: Data Visualization, CS474: Selected Topics in Data Science, CS498/CS499: Graduation Projects (1 & 2), IT 341: Data Transmission and Computer Networks, CS 450: Computer Security, and IT 492: Operating System Forensics.

Bachelor's Level

1) CS460: Computer Vision, Offered: 2023/2022/2021 (Spring and Autumn).
2) CS462: Machine Learning, Offered: 2023/2022/2021 (Spring and Autumn).
3) CS470: Introduction to Data Science, Offered: 2022/2021/2020 (Spring and Autumn).
4) CS473: Data Visualization, Offered: 2023/2022/2021 (Spring and Autumn).
5) CS474: Selected Topics in Data Science, Offered: 2023/2024 (Spring and Autumn).
6) CS498/CS499: Graduation Projects (1 &2), Offered: 2023/2022/2021 (Spring and Autumn).
7) IT 341: Data Transmission and Computer Networks, Offered: 2022/2021/2020(Spring and Autumn).
8) CS 450: Computer Security, Offered: 2022/2021/2020(Spring and Autumn).
9) IT 492: Operating System Forensics, Offered: 2021/2020(Spring and Autumn).

Master's Level

1) MDS611: Introduction to Data Science, Offered: 2023/2022 (Spring).
2) MDS632: Big Data Applications and Analytics Offered: 2023 (Autumn).
3) MDS 631: Graduation Project-1 and 2 Offered: 2023/2024 (Autumn, Spring).
4) MSIT 604: Cybersecurity Technology and Management, Offered: 2024/2023/2022/2021 (Spring).
5) MIT Graduation Project Offered: 2023/2024(Autumn).

- **Assistant Professor:** **September 2013 – December 2017;**

Computer Science, NIIT University, India

- Played a pivotal role in the Computer Science department at NIIT University, India, serving as an Assistant Professor.
- Demonstrated expertise in Artificial Intelligence, Data Science, and Machine Learning, delivering high-quality instruction to students.
- Contributed significantly to curriculum development, ensuring that course content remained relevant and aligned with industry advancements.
- Supervised and mentored students, guiding them in academic projects and research activities.
- Actively participated in professional development opportunities, staying updated on the latest trends in computer science education.
- Engaged in collaborative initiatives within the academic community, fostering an environment of continuous learning and innovation.

RESEARCH SUPERVISION

- **Doctoral Supervision: PhDs Completed**

1) Prashant Baral, PhD, 2020, NIIT University, Neemrana, India, Current Affiliation: ICIMOD, Nepal.
2) Mohd Ramiz, PhD, 2020, Jamia Millia Islamia, New Delhi, India, Current Affiliation: Research Associate, Jamia Millia Islamia, New Delhi, India.

- **Master's/ Bachelors Students, Graduation Project Supervision (Total 120)**

1) Majmaah University, Saudi Arabia, Students Supervised: **MS: 13; BS:16 Students**
2) NIIT University, India, Students Supervised: **M.Tech.: 38; B.Tech: 53 Students**

Current Students:

- **Master's**

1) Meaad Hamad Alsuwit (graduate researcher; since Spring 2024)
2) Mohammed Talat Fattah (graduate researcher; since Spring 2024)
3) Lamya Suliman (graduate researcher; since Spring 2024)
4) Abdulaziz Saeed Alqahtani (graduate researcher; since Spring 2024)
5) Majed Khuthaylah (graduate researcher; since Spring 2024)
6) Khalil Mohammad S Alharbi (graduate researcher; since Fall 2023)
7) Najeeb Abdulaziz N Alabdulkarim (graduate researcher; since Fall 2023)
8) Mustafa Mohammed J Ismail (graduate researcher; since Fall 2023)
9) Muteb Zarraq T Alotaibi (graduate researcher; since Fall 2023)

- **Bachelor's**

10) Abdulrhman Mohammed A Aldakheel(undergraduate researcher; since Fall 2023)
11) Hamad Khalid H Almesnid (undergraduate researcher; since Fall 2023)
12) Nasser Ahmed A Almuzil (undergraduate researcher; since Fall 2023)
13) Hamad Abdulaziz M Alabduljabbar (undergraduate researcher; since Fall 2023)
14) Saleh Othman S Alhuqayl (undergraduate researcher; since Fall 2023)
15) Abdulaziz Turki A Alenazi (undergraduate researcher; since Fall 2023)

16) Majed Bardan E Alshammari (undergraduate researcher; since Spring 2023)
17) Yousef Hazzaa E Almutairi (undergraduate researcher; since Spring 2023)
18) Abdullah Almadi (undergraduate researcher; since Spring 2023)
19) Abdul Aziz Alkyyal (undergraduate researcher; since Spring 2023)
20) Yusuf Almuteiri (undergraduate researcher; since Spring 2023)

Previous Students:

- **Master's**

21) Saad Alali (undergraduate researcher; since Spring 2022)
22) Nourah Fahad (undergraduate researcher; since Spring 2022)
23) Hessah Mohammed (undergraduate researcher; since Spring 2022)
24) Aljawahrah Abdulwahab (undergraduate researcher; since Spring 2022)
25) Aditi Singh (Undergraduate Researcher; since Fall 2019)
26) Bagde Nitesh Narayan (Undergraduate Researcher; since Fall 2019)
27) Deepak Tyagi (Undergraduate Researcher; since Fall 2019)
28) Ghariwala Vishnu Pareshkumar (Undergraduate Researcher; since Fall 2019)
29) Joydip Datta (Undergraduate Researcher; since Fall 2019)
30) Niranjana K P (Undergraduate Researcher; since Fall 2019)
31) Sushila Rani (Undergraduate Researcher; since Fall 2019)
32) Wale Prasad Balasaheb (Undergraduate Researcher; since Fall 2019)
33) Yogit Siral (Undergraduate Researcher; since Fall 2019)
34) Praveena Punathi (Undergraduate Researcher; since Fall 2018)
35) Sarika Padakanti (Undergraduate Researcher; since Fall 2018)
36) Pratyush Kolli (Undergraduate Researcher; since Fall 2018)
37) Pc Rishi Nandan Yoga (Undergraduate Researcher; since Fall 2018)
38) Saniul Haque Choudhury (Undergraduate Researcher; since Fall 2018)
39) Anil Bhattarai (Undergraduate Researcher; since Fall 2018)
40) Balasubramaniyam S (Undergraduate Researcher; since Fall 2018)
41) Chandan Saha (Undergraduate Researcher; since Fall 2017)
42) Karthigeyan.R (Undergraduate Researcher; since Fall 2017)
43) Yogini Sonawane (Undergraduate Researcher; since Fall 2017)
44) Pattan Imran Khan (Undergraduate Researcher; since Fall 2017)
45) Shivaprakash Yaragal (Undergraduate Researcher; since Fall 2017)
46) V Manoj Divakaran (Undergraduate Researcher; since Fall 2017)
47) Arun Vilas Kale (Undergraduate Researcher; since Fall 2017)
48) Gazi Rahaman (Undergraduate Researcher; since Fall 2017)
49) Abhijit Ghosh (Undergraduate Researcher; since Fall 2017)
50) Vikrant Yadav (Undergraduate Researcher; since Fall 2017)
51) Ameya Surendra Joshi (Undergraduate Researcher; since Fall 2016)
52) Manoj Haloi (Undergraduate Researcher; since Fall 2016)
53) Muhammed Thouseef M T (Undergraduate Researcher; since Fall 2016)
54) Pankaj Mahajan (Undergraduate Researcher; since Fall 2016)

55) Payal Dnyaneshwar Gajbhiye (Undergraduate Researcher; since Fall 2016)
56) Sai Anand Peketi (Undergraduate Researcher; since Fall 2016)
57) Sayali Sunil Holankar (Undergraduate Researcher; since Fall 2016)
58) Sushant Prasad Singh (Undergraduate Researcher; since Fall 2016)
59) Vikram Kiranrao Aundhekar (Undergraduate Researcher; since Fall 2016)
60) Pugalendhi V (Undergraduate Researcher; since Fall 2015)
61) Ritanshu Goel (Undergraduate Researcher; since Fall 2015)
62) Shanmuga Raja TM (Undergraduate Researcher; since Fall 2015)

- **Bachelor's**

63) Ahmed khalid alrumayh (undergraduate researcher; since Spring 2022)
64) Adel Obaid M Alharbi (undergraduate researcher; since Spring 2022)
65) Abdulrehman Muhahyl Alotaibi (undergraduate researcher; since Spring 2021)
66) Abdulaziz Abdullah (undergraduate researcher; since Spring 2021)
67) Ali Qasim Mushbar (undergraduate researcher; since Spring 2021)
68) Sherry Sharma (Undergraduate Researcher; since Fall 2019)
69) Javid Akhtar (Undergraduate Researcher; since Fall 2019)
70) Nair Tejas Deepak (Undergraduate Researcher; since Fall 2019)
71) Desu Lohith (Undergraduate Researcher; since Fall 2019)
72) Jashwanth Reddy (Undergraduate Researcher; since Fall 2019)
73) Shubham (Undergraduate Researcher; since Fall 2019)
74) Pradeep Yadav (Undergraduate Researcher; since Fall 2019)
75) Vishwas Saini (Undergraduate Researcher; since Fall 2019)
76) Muskan Gupta (Undergraduate Researcher; since Fall 2019)
77) Yeshwanth Reddy (Undergraduate Researcher; since Fall 2019)
78) Gehna Ahuja (Undergraduate Researcher; since Fall 2019)
79) Mohit Kumar (Undergraduate Researcher; since Fall 2019)
80) Purandhar Chilukuru (Undergraduate Researcher; since Fall 2019)
81) Venkata Datta Kamesam Jami (Undergraduate Researcher; since Fall 2019)
82) Vaishnavi Kattekola (Undergraduate Researcher; since Fall 2019)
83) Nagabhyru Bhuvanesh Chowdadry (Undergraduate Researcher; since Fall 2019)
84) Rishika Chowdary (Undergraduate Researcher; since Fall 2019)
85) Nandini Sinha (Undergraduate Researcher; since Fall 2019)
86) Adya Mahlawat (Undergraduate Researcher; since Fall 2019)
87) Siddharth Bisht (Undergraduate Researcher; since Fall 2019)
88) Hridaya Annuncio (Undergraduate Researcher; since Fall 2019)
89) Rahul Ghosh (Undergraduate Researcher; since Fall 2019)
90) Omkar Vuddanti (Undergraduate Researcher; since Fall 2019)
91) Cvn Sai Koushik (Undergraduate Researcher; since Fall 2019)
92) Rahul Panghal (Undergraduate Researcher; since Fall 2019)
93) Nikhil Pothana (Undergraduate Researcher; since Fall 2019)
94) Mayank Tola (Undergraduate Researcher; since Fall 2019)

95) Jaini Rutvik (Undergraduate Researcher; since Fall 2019)
96) Abhinav Reddy (Undergraduate Researcher; since Fall 2019)
97) Amanpreet Singh (Undergraduate Researcher; since Fall 2019)
98) Shubham Tripathi (Undergraduate Researcher; since Fall 2019)
99) Nikhil Gahlot (Undergraduate Researcher; since Fall 2019)
100) Rishabh Gaur (Undergraduate Researcher; since Fall 2019)
101) Ojasvi M Bhalerao (Undergraduate Researcher; since Fall 2018)
102) Prashanth Kurella (Undergraduate Researcher; since Fall 2018)
103) Abhishek Rahlan (Undergraduate Researcher; since Fall 2018)
104) Ch Sai (Undergraduate Researcher; since Fall 2018)
105) Sandeep Choudhary (Undergraduate Researcher; since Fall 2017)
106) Ishitaa Sayal (Undergraduate Researcher; since Fall 2017)
107) Ayushi Jain (Undergraduate Researcher; since Fall 2017)
108) Shefali Gill (Undergraduate Researcher; since Fall 2017)
109) Rajjat Chhajer (Undergraduate Researcher; since Fall 2017)
110) Kodamasimham Aakash (Undergraduate Researcher; since Fall 2017)
111) Divya Sara Kurian (Undergraduate Researcher; since Fall 2015)
112) Sibeli Mukherjee (Undergraduate Researcher; since Fall 2015)
113) Rishabh Kumar (Undergraduate Researcher; since Fall 2015)
114) Aviral Aggarwal (Undergraduate Researcher; since Fall 2015)
115) Prakhar Awasthi (Undergraduate Researcher; since Fall 2015)
116) Bhumesh Birdi (Undergraduate Researcher; since Fall 2015)
117) Chandan Singh (Undergraduate Researcher; since Fall 2015)
118) Yuganshu Verma (Undergraduate Researcher; since Fall 2015)
119) Abhishek Ajith (Undergraduate Researcher; since Fall 2014)
120) Sindhuja Guda (Undergraduate Researcher; since Fall 2014)

- **External Doctoral Thesis Examiner**

1) JNU, New Delhi, India.
2) SRM University, India.
3) Anna University, India
4) Barthiar University, India

ACCREDITATION SERVICE

1) Member, Quality Unit, College of Computer and Information Sciences, Majmaah University Saudi Arabia, 2020-till date.
2) Contributed Significantly to Successful NCAAA Accreditation for the Department of Computer Science, College of Computer and Information Sciences, Majmaah University, Dec 2020-March 2021.
3) Contributed Significantly to Successful NCAAA Accreditation for the Department of Information Technology, College of Computer and Information Sciences, Majmaah University, July 2022-Jan 2023.
4) Member of ABET and NCAAA course reports evaluation committee, 2020-till date.

5) Coordinator of Accreditation Committee for Master of Data Science Course, 2023.
6) Member of Accreditation Committee for Master of Cyber Security Course, 2023.

PROFESSIONAL SERVICE

Editorial Roles

1) Academic Editor at PLoS One: https://journals.plos.org/plosone/static/editorial-board?ae_name=Mohd+Anul+Haq ; 15 December 2023 to Until Now.
2) Editorial Board Member for the journal Artificial Intelligence and Applications, Feb 2023-December 2023.
3) Guest Editor at Frontiers of Environmental Science: https://www.frontiersin.org/research-topics/20729/big-earth-data-intelligence-for-environmental-modeling#impact; 25 March 2021-27 September 2021.
4) Guest Editor at Frontiers of MDPI, Remote Sensing; https://www.mdpi.com/journal/remotesing/special_issues/pattern_mining; 11 November 2021- 21 August 2022.
5) Review Editor in Frontiers of Remote Sensing, April 2022 to April 2023.

Conference program committees:

1) International Conference on Unmanned Aerial Systems in Geomatics (UASG 2023) 2023
2) International Conference on Unmanned Aerial Systems in Geomatics (UASG 2021) 2021

Conference/workshop organizing:

1) NIIT University's (NU) Research Symposium 2019; (*Organizing Committee)*
2) NIIT University's (NU) Research Symposium 2017; (*Organizing Committee)*

Journal reviewing:

170 Reviews Of 101 Manuscripts
For manuscripts published from date range January 2019 - January 2024

(49) Plos One || (19) Remote Sensing || (12) Applied Sciences (9) Water || (9) Sustainability (9) Land || (8) Sensors || (8) IEEE Access || (5) Electronics || (4) Information || (4) International Journal of Remote (4) Atmosphere || (3) Geocarto International || (3) International Journal of Retail an... || (2) Toxics || (2) Energies || (2) Axioms || (2) Forests || (2) Agriculture || (2) Future Internet || (2) ISPRS International Journal of Ge... || (2) The Journal of Supercomputing || (1) Electromagnetic Biology and Me... (1) IEEE Geoscience and Remote Se... || (1) Coatings || (1) Applied Artificial Intelligence || (1) International Journal of Digital E... || (1) Soft Computing || (1) Pollutants || (1) Natural Resources Research
(50)

PROFESSIONAL MEMBERSHIP

- IEEE
- International Society for Geomatics (Life Member)

SERVICE ACTIVITIES (WITHIN AND OUTSIDE OF THE INSTITUTION):

1) Coordinator of Operational Plan of the Department of Computer Science, College of

Computer and Information Sciences, Majmaah University for the academic year 2023-2024.

2) Coordinator of Operational Plan of the Department of Computer Science, College of Computer and Information Sciences, Majmaah University for the academic year 2022-2023.
3) Developed the Master of Artificial Intelligence Program at Majmaah University, in 2022.
4) Developed the Master of Data Science Program at Majmaah University, in 2020.
5) Member, Academic Development Unit, College of Computer and Information Sciences, Majmaah University Saudi Arabia 2020- till date.
6) Curriculum Design Committee- Master of Artificial Intelligence, Majmaah University, 2020- till date.
7) Member of Organizing Committee, Unmanned Aerial System in Geomatics (UASG-2021), Indian Institute of Technology Roorkee, India
8) Member of Organizing Committee, Unmanned Aerial System in Geomatics (UASG-2019), Indian Institute of Technology Roorkee, India
9) Member of Academic Council, 2014-2020, NIIT University, India
10) Member of Library Committee, 2015-2020, NIIT University, India
11) Member of Industrial Practice Committee, 2014-2020, NIIT University, India.
12) Member of Convocation Committee, 2013-2019, NIIT University, India.
13) Member of Grievance Redressal Committee, 2014-2016, NIIT University, India.
14) Member of Mentors Committee, 2013-2019, NIIT University, India
15) Member of Doctoral Symposium Committee, NIIT University, 2018-2019 Chief Coordinator of 7th Annual Lecture, Nov 2015.