Curriculum Vitae

Dr. Sarfaraz Masood
Associate Professor
Department of Computer Engineering,
Faculty of Engineering & Technology
Jamia Millia Islamia (Central University)
New Delhi – 110025, INDIA

Contact number	: +91-9654-77-4604 (M), +91-011-26980281 (O)
Email	: smasood@jmi.ac.in
Date of Birth	: 01-01-1985
Gender	: Male
Marital Status	: Married
Nationality	: INDIAN

Area of Research Interest

Applied Intelligence, Artificial Neural Networks, Network weight initialization of Sigmoidal feed forward neural networks, Deep Learning, Application of DL in the field of image processing and biomedical signal processing, Evolutionary Optimization techniques.

Academic Record

Degree	Specialization	Institute	University	Year	Division
Ph. D.	Computer Engineering	Department of Computer Engg.	Jamia Millia Islamia, New Delhi	2020	-
M. Tech.	Information Technology	University School of Information and Comm. Technology	Guru Gobind Singh Indraprastha University, Dwarka, New Delhi	2012	1st with Distinction
B. Tech.	Computer Engineering	Department of Computer Engg.	Jamia Millia Islamia, New Delhi	2006	1st

Topic of Ph.D. Thesis: *Training schemes for Neural Network*

Teaching and Industry Experience

Institute	Duration	Designation
Department of Computer Engineering, Jamia Millia Islamia, New Delhi	August 2020-till date	Associate Professor
Department of Computer Engineering, Jamia Millia Islamia, New Delhi	July 2007 – July 2020	Assistant Professor
NetProphets Global, Noida, Uttar Pradesh	June 2007 – July 2007	Java Developer
Ericsson India Pvt Ltd, Gurugram, Haryana	July 2006 – May 2007	Engineer Support

Skilled with Programming Languages and APIs:

- C/C++
- Java,
- MATLAB
- Python , (API : Keras, Tensorflow)

Research Activities

➢ **Patents**

Application No	2021103131
Agency	Australian Patent, Australian Govt.
Title	*A feature boosted Web-based product purchase recommendation method and system*
Inventors	Sarfaraz Masood ; Sameera Mufazzal ; Noor Zaman Khan; S. M. Muzakkir ; Zahid A. Khan ; Mohd Tauheed Khan.
Date Filed	05/06/21
Present Status	*GRANTED on 23rd March 2022*
Web link	*Click Here*

➢ **Publications**

❖ **International Refereed Journals: 28**

- Anwar, Z., & **Masood, S.** (2023). Exploring Deep Ensemble Model for Insect and Pest Detection from Images. Procedia Computer Science **(Elsevier)**, 218, 2328-2337. https://doi.org/10.1016/j.procs.2023.01.208 . [Indexed: **SCOPUS**].

- Bhati, P., Hussain, M. E., Deepak, K. K., **Masood, S.,** & Anand, P. (2023). Progressive resistance training ameliorates deteriorating cardiac autonomic dysfunction, subclinical inflammation and endothelial dysfunction in type 2 diabetes mellitus: A randomized control trial. Diabetes & Metabolic Syndrome: Clinical Research & Reviews (**Elsevier**), 102778. https://doi.org/10.1016/j.dsx.2023.102778 [Indexed: **SCOPUS**].

- Masud, U., Siddiqui, M., Sadiq, M., & **Masood, S.** (2023). SCS-Net: An efficient and practical approach towards Face Mask Detection. Procedia Computer Science **(Elsevier)**, 218, 1878-1887. https://doi.org/10.1016/j.procs.2023.01.165 [Indexed: **SCOPUS**].

- Ahmad, S., **Masood, S**., Khan, N. Z., Badruddin, I. A., Ahmadian, A., Khan, Z. A., & Khan, A. H. (2022). Analysing the impact of COVID-19 pandemic on the psychological health of people using fuzzy MCDM methods. **Operations Research Perspectives (***Elsevier***)**, 100263. https://doi.org/10.1016/j.orp.2022.100263. [Indexed: **SCI**, **SCOPUS**][**IF: 3.38**]

- Equbal, A., **Masood, S**., Equbal, I., Ahmad, S., Khan, N. Z., & Khan, Z. A. (2023). Artificial intelligence against COVID-19 Pandemic: A Comprehensive Insight. **Current Medical Imaging (***Bentham Science Publisher***)**, 19(1), 1-

18. https://doi.org/10.2174/1573405617666211004115208 .[Indexed: **SCI**, **SCOPUS**][**IF: 1.31**]

- Sadiq, M., **Masood, S.** & Pal, O., (2022). FD-YOLOv5: A Fuzzy Image Enhancement Based Robust Object Detection Model for Safety Helmet Detection. **Int. Journal Fuzzy System (*Springer*)**. https://doi.org/10.1007/s40815-022-01267-2. [Indexed: **SCI**, **SCOPUS**][**IF: 4.67**]

- **Masood, S.**, Khan, R., Abd El-Latif, A.A. et al., (2022). An FCN-LSTM model for neurological status detection from non-invasive multivariate sensor data. **Neural Computing & Applications (*Springer*)**, ISSN 1433-3058, https://doi.org/10.1007/s00521-022-07117-4. [Indexed: **SCI**, **SCOPUS**][**IF: 5.60**]

- Sadiq, M., Khan, M. T., & **Masood, S.,** (2022). Attention-Based Deep Learning Model for Early Detection of Parkinson's Disease. **CMC-Computers Materials & Continua**, 71(3), 5183-5200. https://doi:10.32604/cmc.2022.020531 [Indexed: **SCI**, **SCOPUS**][**IF: 3.77**]

- Ahmed, M., **Masood, S.**, Ahmad, M., A.A. Abd El-Latif., (2021). Intelligent driver drowsiness detection for traffic safety based on multi CNN deep model and facial subsampling. **IEEE Transactions on Intelligent Transportation System**, ISSN 1558-0016, https://doi.org/10.1109/TITS.2021.3134222 [Indexed: **SCI**, **SCOPUS**] [**IF : 6.49**]

- Majid, S., Alenezi, F, **Masood, S.**, Ahmad, M., Gündüz, E. S., Polat. K., (2021). Attention Based CNN model for Fire Detection and Localization in Real-World Images. **Expert Systems with Application (Elsevier)**, 116114, ISSN 0957-4174, https://doi.org/10.1016/j.eswa.2021.116114, [Indexed: **SCI**, **SCOPUS**] [**IF : 6.9**]

- Equbal, A., **Masood, S.**, Equbal, I., Ahmad, S., Khan, N. Z., & Khan, Z. A. (2021). Artificial intelligence against COVID-19 Pandemic: A Comprehensive Insight. **Current Medical Imaging (Bentham Science),** ISSN 1875-6603 https://doi.org/10.2174/1573405617666211004115208 [Indexed: **SCIE**, **SCOPUS**] [**IF : 0.85**]

- **Masood, S.**, Maqsood, K. W., Pal, O., & Kumar, C. (2021). An ensemble-based feature selection framework for early detection of Parkinson's disease based on feature correlation analysis. **Mathematical methods in the Applied Sciences (Wiley)**, ISSN 1099-1476, https://doi.org/10.1002/mma.7835 [Indexed: **SCIE**, **SCOPUS**] [**IF : 2.32**]

- Razaq, A., Ahmad, M., Yousaf, M. A., & **Masood, S**. (2021). A novel finite rings based algebraic scheme of evolving secure S-boxes for images encryption. Multimedia Tools and Applications **(Springer)** , 80, 20191-20215. https://doi.org/10.1007/s11042-021-10587-8 [Indexed: **SCI**, **SCOPUS**] [**IF : 2.577**]

- Sharma, P., S. Parveen, **S. Masood**, and M. M. Noohu. "Association of blood pressure and postural control in older adults with hypertension: an observational study." **Comparative Exercise Physiology** (2021): 1-8. ISSN 1755-2540. https://doi.org/10.3920/CEP210016. [Indexed: E**SCI**, **SCOPUS**].

- Mufazzal, S., **Masood, S.,** Khan, N.Z., Muzakkir, S.M. and Khan, Z.A., (2021). Towards minimization of overall inconsistency involved in criteria weights for improved decision making. **Applied Soft Computing (Elsevier)**, 100, p.106936. https://doi.org/10.1016/j.asoc.2020.106936 [Indexed: **SCI**, **SCOPUS**] [**IF : 6.725**]

- Rani, S., **Masood, S.** (2020). Predicting congenital heart disease using machine learning techniques. **Journal of Discrete Mathematical Sciences and Cryptography**, 23(1), 293-303. https://doi.org/10.1080/09720529.2020.1721862 [Indexed: **ESCI**, **SCOPUS**]

- Raj, S., **Masood, S.**, (2020). Analysis and Detection of Autism Spectrum Disorder Using Machine Learning Techniques. **Procedia Computer Science, Elsevier** ISSN 1877-0509, 167, 994-1004. https://doi.org/10.1016/j.procs.2020.03.399. [Indexed: **SCOPUS**]

- Ahmad, F., Ahmed, M., Rizvi, D. R., **Masood, S.**, Masood A. (2020). Machine Learning Approach for Predicting the Quality of Water. **International Journal of Advanced Science and Technology** 29 (5s), 275 -82. [Indexed: **SCOPUS**] http://sersc.org/journals/index.php/IJAST/article/view/7133

- **Masood, S.**, Doja, M. N., & Chandra, P. (2020). Chaos Based Network Initialization Approach for Feed Forward Artificial Neural Networks. **Journal of Computational and Theoretical Nanoscience**, 17(1), 418-424. https://doi.org/10.1166/jctn.2020.8684 [Indexed: **SCOPUS**]

- Wahid, M. A., **Masood, S.**, Khan, Z. A., Siddiquee, A. N., Badruddin, I. A., & Algahtani, A. (2020). A simulation-based study on the effect of underwater friction stir welding process parameters using different evolutionary optimization algorithms. Proceedings of the Institution of Mechanical Engineers, **Part C: Journal of Mechanical Engineering Science, SAGE**, 234(2), 643-657. https://doi.org/10.1177/0954406219883904 [Indexed: **SCI**, **SCOPUS**] [**IF : 1.762**]

- **Masood, S.**, Ahsan, U., Munawwar F., Rizvi, D. R., Ahmed M., (2020). Scene Recognition from Image Using Convolutional Neural Network. **Procedia Computer Science, Elsevier** ISSN 1877-0509, 167, 1005-1012. https://doi.org/10.1016/j.procs.2020.03.400 [Indexed: **SCOPUS**]

- Ahmad F., Rizvi, D. R., Nissar, I., **Masood, S.**, Ahmed, M., (2020). An LSTM Based Deep Learning Model for Voice-Based Detection of Parkinson's disease. **International Journal of Advanced Science and Technology** 29 (5s), 337 -43. http://sersc.org/journals/index.php/IJAST/article/view/7166. [Indexed: **SCOPUS**]

- **Masood, S.**, & Jan, N. S. (2020). SIMPLEX: An Activation Function with Improved Loss Function Results in Validation. **Journal of Computational and Theoretical Nanoscience,** 17(1), 147-153. https://doi.org/10.1166/jctn.2020.8643 [Indexed: **SCOPUS**]

- **Masood, S**., Doja, M. N., & Chandra, P. (2019). Architectural Parameter-Independent Network Initialization Scheme for Sigmoidal Feedforward ANNs. **Arabian Journal for Science and Engineering, Springer**, 1-13. https://doi.org/10.1007/s13369-019-04200-2 [Indexed: **SCIE**, **SCOPUS**] [**IF : 2.334**]

- Bhati, P., Singla, D., **Masood, S**., Hussain, E., (2019). Type 2 Diabetes Mellitus Patients Manifest Greater Muscle Fatigability than Healthy Individuals during Dynamic Fatigue Protocol. **Journal of Manipulative and Physiological Therapeutics, Elsevier**, 1-13. ISSN: 0161-4754, https://doi.org/10.1016/j.jmpt.2019.10.015 [Indexed: **PUBMED**, **SCIE**, **SCOPUS**] [**IF : 1.437**]

- Nissar, I., Rizvi D. R., **Masood S**. & Mir A. N., (2019), Voice-Based Detection of Parkinson's Disease through Ensemble Machine Learning Approach: A Performance Study, **EAI Endorsed Transactions on Pervasive Health and Technology**, Volume 5(19). http://dx.doi.org/10.4108/eai.13-7-2018.162806 [Indexed: **ESCI**, **SCOPUS**]

- **Masood, S**., Rai, A., Aggarwal, A., Doja, M. N., & Ahmad, M. (2020). Detecting distraction of drivers using convolutional neural network. **Pattern Recognition Letters, Elsevier** 139, 79-85. https://doi.org/10.1016/j.patrec.2017.12.023 [Indexed: **SCI**, **SCOPUS**] [**IF : 3.756**]

- Singh, S. G., Mohapatra, A. K., and **Masood, S.,** (2016) Design of an Optimized Novel Cryptographic Algorithm and Comparative Analysis with the Existing Cryptographic Algorithms., **International Journal of Control Theory and Application**, 2016, pg. no 503-514. [Indexed: **SCOPUS**]

❖ **International Conferences : 24**

- Nissar, I., Alam, S., & **Masood, S.** (2023). Recent Trends in Modalities and Deep Learning Methods for Breast Cancer Detection. In Advancements in Smart Computing and Information Security: First International Conference, ASCIS 2022, Rajkot, India, November 24–26, 2022, Revised Selected Papers, Part I (pp. 416-434). Cham: **Springer** Nature Switzerland. https://doi.org/10.1007/978-3-031-23092-9_33 [Indexed: **SCOPUS**] [Available at http://www.springerlink.com]

- Rani, S., Ahmad, T., & **Masood, S.** (2023). Comparative Analysis of Breast and Prostate Cancer Prediction Using Machine Learning Techniques. In International Conference on Innovative Computing and Communications (pp. 643-650). *Springer*, Singapore. https://doi.org/10.1007/978-981-19-2821-5_54 .[Indexed: **SCOPUS**] [Available at http://www.springerlink.com]

- Mir, W. A., Nissar, I., Rizvi, D. R., **Masood, S.,** & Hussain, A. (2022, March). Deep Learning-based model for the detection of Parkinson's disease using voice data. In 2022 First International Conference on Artificial Intelligence Trends and Pattern Recognition (ICAITPR) (pp. 1-6). IEEE. https://doi.org.10.1109/ICAITPR51569.2022.9844185 [Indexed: **SCOPUS**]

- Shagufta, A., Hesham, M. T., **Masood, S.,** & Abd El-latif, A. (2021). A Vision Transformer Model for Violence Detection from Real-Time Videos. In the 5th International Conference on Future Networks & Distributed Systems (pp. 834-840), Proceedings of ICFNDS 2021, ACM International conference held at Dubai United Arab Emirates, 15th -16th December 2021, ISBN: 978-1-4503-8734-7. [Indexed: **SCOPUS**] [Available at ACM Digital Library]

- Sharma, K., **Masood, S.,** (2020). Deep Learning-Based Non-invasive Fetal Cardiac Arrhythmia Detection. In Applications of Artificial Intelligence and Machine Learning (pp. 511-523). Springer, Singapore. Proceedings of ICAAAIML 2020, Springer International conference, Noida, Uttar Pradesh, Odisha 201310, INDIA, 29th – 30th October 2020. [Indexed: **SCOPUS**] [Available at http://www.springerlink.com]

- Khan U, **Masood S**. (2020). A Machine Learning Approach to Human Activity Recognition. In Proceedings of 2020 Sixth IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC) (pp. 167-171), organized by PIET Panipat, Haryana India on Nov 6, 2020. [Indexed: **SCOPUS**] [Available at IEEE Explore]

- Ahmad, M., Aijaz, A., Ansari, S., Siddiqui, M. M., & **Masood, S.** (2018). Cryptanalysis of Image Cryptosystem Using Synchronized 4D Lorenz Stenflo Hyperchaotic Systems. In Information and Decision Sciences (pp. 367-376). Springer, Singapore. Proceedings of FICTA 2017, pp. 367-376, Springer International conference, KIIT, Bhubaneswar, Odisha 751024, INDIA, 14th – 15th October 2017. [Indexed: **SCOPUS**] [Available at http://www.springerlink.com].

- **Masood, S.,** Srivastava, A., Thuwal, H. C., & Ahmad, M. (2018). Real-time sign language gesture (word) recognition from video sequences using CNN and RNN. In Intelligent Engineering Informatics (pp. 623-632). Springer, Singapore., proceedings of FICTA 2017, pp. 623-632, Springer International conference, KIIT,

Bhubaneswar, Odisha 751024, INDIA, 14th – 15th October 2017. [Indexed: SCOPUS] [Available at http://www.springerlink.com]

- **Masood, S.,** Luthra, T., Sundriyal, H., & Ahmed, M., (2017). Identification of diabetic retinopathy in eye images using transfer learning. In 2017 International Conference on Computing, Communication and Automation (ICCCA) (pp. 1183-1187). IEEE. [Indexed: SCOPUS]

- **Masood, S.,** Thuwal, H. C., & Srivastava, A., (2018). American Sign Language character recognition using convolution neural network. In Smart Computing and Informatics (pp. 403-412). Springer, Singapore. Proceedings of SCI 2017, Springer international conference, Vishakhapatnam, A.P. INDIA, 3rd - 4th March 2017. [Indexed: SCOPUS] [Available at http://www.springerlink.com].

- Ahmed, M., Seeru F., Masihuddin, A., and **Masood, S.,** (2016). Dynamic 9×9 Substitution-Boxes Using Chaos Based Heuristic Search. In proceedings of SoCTA 2016, Springer International conference, Bundelkhand University, Jhansi, INDIA, 22nd – 24th December, 2016. [Indexed: SCOPUS].

- **Masood, S.,** Nayal, J, S., Jain, R. K., Doja, M. N., Ahmed, M., (2016). Emotion Identification in Songs based on MFCC. Spectral and Temporal Features using artificial neural network, in proceedings of ICACDS 2016, Springer international conference, Ghaziabad, U.P. INDIA, 12th-13th Nov 2016. [Indexed: SCOPUS] [Available at http://www.springerlink.com]

- Akhtar, A., **Masood, S.,** Gupta C., Masood, A., (2016). Prediction and Analysis of Pollution levels in Delhi using Multilayer Perceptron. In proceedings of IC3T 2016, Springer international conference, Vijayawada, A.P , INDIA, 5th-6th Nov 2016. [Indexed: SCOPUS] [Available at http://www.springerlink.com]

- **Masood, S.,** Gupta, S., Wajid, A., Gupta, S., & Ahmed, M. (2018). Prediction of human ethnicity from facial images using neural networks. In Data Engineering and Intelligent Computing (pp. 217-226). Springer, Singapore, proceedings of IC3T 2016, Springer international conference, Vijayawada, A.P. INDIA, 5th-6th Nov 2016. [Indexed: SCOPUS] [Available at http://www.springerlink.com]

- **Masood, S.,** Nayal, J, S., Jain, R. K., (2016). Singer identification in Indian Hindi Songs Using MFCC and Spectral Features. In proceedings of ICPEICES 2016, IEEE international conference, Delhi, INDIA, 4th – 6th July 2016. [Indexed: SCOPUS] [Available at IEEE Explore]

- **Masood, S.,** Doja, M. N., and Chandra, P., (2016). Analysis of weight initialization routines for conjugate gradient training algorithm with Fletcher-Reeves updates. In proceeding of Computing, Communication and Automation (ICCCA), 2016 International Conference on. IEEE, Uttar Pradesh, INDIA, 29-30 April 2016. [Indexed: SCOPUS] [Available at IEEE Explore]

- **Masood, S.,** Doja, M. N., Chandra, P., (2016). Analysis of Weight Initialization routines for scaled conjugate gradient training algorithm. In proceedings of CICT 2016, IEEE international conference, Ghaziabad, U.P., INDIA, 12th-13th Feb 2016. [Indexed: SCOPUS] [Available at : IEEE Explore]

- **Masood, S.,** Mehta, M., Singh, N., Rizvi, D. R., (2015). Isolated Word Recognition Using Neural Network. In proceedings of INDICON 2015, IEEE international conference, New Delhi, INDIA, 17th-20th Dec 2015. [Indexed: SCOPUS] [Available at : IEEE Explore]

- Dang, D., Tanwar J., **Masood, S.,** (2015). A Smart Traffic Solution for High Priority Vehicles. In proceedings of NGCT 2015, IEEE international conference, Uttar Pradesh, India, 4-5 Sept 2015. [Indexed: SCOPUS] [Available at : IEEE Explore]

- **Masood, S.,** Doja, M. N., Chandra, P., (2015). Analysis of Weight Initialization methods for Gradient Descent algorithm with momentum. In proceedings of ICSCTI 2015, IEEE international conference, Faridabad, INDIA, 8th -10th Oct 2015. [Indexed: **SCOPUS**] [Available at IEEE Explore]

- **Masood, S.,** Khan, S., and Gupta, S., (2015). Novel Approach for Musical Instrument Identification Using Neural Network. In proceedings of INDICON 2015, IEEE international conference, New Delhi, INDIA, 17th-20th Dec 2015. [Indexed: **SCOPUS**] [Available at IEEE Explore]

- **Masood, S.,** Doja, M. N., Chandra, P., (2015). Analysis of Weight Initialization techniques for Gradient Descent algorithm. In proceedings of INDICON 2015, IEEE international conference, New Delhi, INDIA, 17th-20th Dec 2015. [Indexed: **SCOPUS**] [Available at IEEE Explore]

- Goel, A.; Sheezan, M.; **Masood, S**., Saleem, A., (2014). Genre classification of songs using neural network. In proceedings of Computer and Communication Technology (ICCCT), 2014 International Conference on , vol., no., pp. 285,289, 26-28 Sept. 2014 [Indexed: **SCOPUS**] [Available at IEEE Explore]

- **Masood, S.,** Chandra, P., (2012). Training neural network with zero weight initialization. In proceedings of the CUBE International Information Technology Conference (CUBE '12). ACM, New York, NY, USA, 235-239. DOI=10.1145/2381716.2381761 [Indexed: **ACM, DBLP, SCOPUS**] [Available at http://doi.acm.org/10.1145/2381716.2381761]

- ❖ **Book Chapters : 02**
  - Nissar, I., Alam, S., **Masood, S.**, & Mir, W. A. (2023). Bridging the Gap between Technology and Medicine: Approaches of Artificial Intelligence in Healthcare. In Machine Learning and Artificial Intelligence in Healthcare Systems (pp. 173-190). *CRC Press*. ISBN : 9781003265436

  - Rani, S., Ahmad, T., & **Masood, S.** (2023). Deep neural architecture for the breast cancer detection from medical CT image modalities. Book Title: Diagnostic Biomedical Signal and Image Processing Applications, Book Series: Intelligent Data-Centric Systems, *Elsevier*. [*Accepted – Under publication*].

- ❖ **National Conferences   : 01**
  - **Masood, S.,** Qamar, S., Khan, Z., (2013), Gabor Filter Based Automatic Vehicle Classification Using Neural Network. In **Elsevier Conference proceeding Book for AEMDS** - 2nd National Conference on Advancements in the Era of Multi-Disciplinary Systems 2013, pp. no 945-950**.**

Ph.D. / M. Tech Dissertation/Projects Guided

Ph.D. Supervision   : 03 (Ongoing)

M. Tech. Dissertations   : 08 (Completed), 02 (Ongoing)

B. Tech. Projects   : 42 (Completed), 03 (Ongoing)

Courses Taught

Course Name	Course Code	Type	Level	Class	Semester

Deep Learning	MCEN-302	Theory	PG/PhD Course Work	M. Tech. / PhD Comp. Engg.	3rd
Soft Computing Techniques	MCEN 203	Theory	PG/PhD Course Work	M. Tech. / PhD Comp. Engg.	2nd
Deep Learning Lab	MCEN 392	Practical	PG	M. Tech. Comp. Engg.	3rd
Advanced Computing Lab	MCEN 292	Practical	PG	M. Tech. Comp. Engg.	2nd
Operating System	CM-105	Theory	PG	M. Tech. Comp. Math.	1st
Neural Networks and Optimization	CM-302	Theory	PG	M. Tech. Comp. Math.	3rd
Automata Theory	CEN-502	Theory	UG	B. Tech. Comp. Engg.	5th
Compiler Design	CEN-602	Theory	UG	B. Tech. Comp. Engg.	6th
Compiler Design Lab	CEN 692	Practical	UG	B. Tech. Comp. Engg.	6th
Data Structures	BCEN 102	Theory	UG	B. E. Comp. Engg.	1st Yr
Object Oriented Programming	CEN-592	Practical	UG	B. Tech. Comp. Engg.	5th

Funded Research Project

Title	:	**A Novel Approach towards Spam Classification**
Role	:	Principal Investigator.
Funding Agency	:	ISRO, Bangalore
Sanctioned amount	:	Rs. 3,00,000/-
Sanction no.	:	DS-2B-13012(2)/3/2018, as a part of post Hackathon 2017 activities**.**

Expert Lectures Delivered

- Delivered a hands-on based online lecture on the topic "***Introduction to Autoencoders and their applications in Computer Vision***", on 23rd November 2022 at a Short Term Course on "Machine Learning using Python" organized by NITTTR Chandigarh.

- Delivered an online seminar lecture on the topic "***Deep Learning approach for Video Processing***", on 5th May 2022 for the Augustana College, Rock Island Illinois, USA

- Delivered an online lecture on the topic "***ICT based Learning during COVID era***", on 15th March 2022 at the workshop on 'Critical Understanding of ICT' organised by Institute of Advanced Studies, Jamia Millia Islamia, New Delhi.

- Delivered a hands-on based online lecture on the topic "***Artificial Neural Network and its applications to Safe Driving***", on 28th Oct 2021 at a Short Term Course on "Machine Learning using Python" organized by NITTTR Chandigarh.

- Delivered an online lecture on the topic "***Role of Technology (AI) in Education***", on 30th July 2021 at the workshop on 'Critical Understanding of ICT' organised by

Institute of Advanced Studies, Jamia Millia Islamia, New Delhi.

- Delivered a hands-on based online lecture on the topic "***Introduction to Computer Vision with CNN using Tensorflow***", on 27th July 2021 at an AICTE sponsored ATAL FDP organized by KIET Ghaziabad, UP.

- Delivered an online seminar lecture on the topic "***Artificial Neural Network and Deep Learning Models***", on 25th January 2021 for the Augustana College, Rock Island Illinois, USA.

- Delivered a hands-on based online lecture on the topic "***Human Computer Interaction using Machine Learning***", on 15th January 2021 for the Augustana College, Rock Island Illinois, USA.

- Delivered a hands-on based expert session on the topic "***Implementation of ANN and KNN for classification and regression problems using Python***", on 01st July 2020 at an online FDP on "Machine Learning and its application using python", organized by AKGEC, Ghaziabad, India.

- Delivered a live lecture on "Introduction to Compiler Design" on 13th Aug 2014 at CEC-UGC New Delhi telecasted on the National Channel: VYAS. [Available at : www.youtube.com/watch?v=qE_sGjGqqqI]

- Delivered a live lecture on "Lexical Analysis" on 14th Aug 2014 at CEC-UGC, New Delhi telecasted on the National Channel: VYAS. [Available at : https://www.youtube.com/watch?v=m7dJbkuGD80]

- Delivered a live lecture on "Syntax Analysis – I" on 12th Nov 2014 at CEC-UGC, New Delhi telecasted on the National Channel: VYAS. [Available at : https://www.youtube.com/watch?v=TsjE7ia4Uvk]

- Delivered a live lecture on "Syntax Analysis - II" on 13th Nov 2014 at CEC-UGC, New Delhi telecasted on the National Channel: VYAS. [Available at : https://www.youtube.com/watch?v=UPcw7GEreoE]

- Delivered a live lecture on "Semantic Analysis - I" on 30th Dec 2014 at CEC-UGC, New Delhi telecasted on the National Channel: VYAS. [Available at : https://www.youtube.com/watch?v=1ZbmmaWdy-U]

- Delivered a live lecture on "Semantic Analysis -II" on 30th Mar 2015 at CEC-UGC, New Delhi telecasted on the National Channel: VYAS. [Available at : https://www.youtube.com/watch?v=lFdeMlrCrQ4]

- Delivered a live lecture on "Intermediate Code Generation" on 23rd June 2015 at CEC-UGC, New Delhi telecasted on the National Channel: VYAS. [Available at : https://www.youtube.com/watch?v=LSXj0ys32v0]

Short Term Course/ FDPs / Workshop/ Seminar/Conference Attended

- Successfully completed a two week online FDP on "***Deep Learning & its Application (Parallel Architecture)***" jointly organized by the Electronics and ICT Academies at IIT Guwahati, IIT Kanpur, IIT Roorkee, MNIT Jaipur, NIT Patna, NIT Warangal and PDPM IIITDM Jabalpur during Aug 23- Sept 3, 2021, under a special scheme of MeitY, Government of India.

- Successfully completed a one week online FDP on "***Inculcating Universal Human Values in Technical Education***" organized by All India Council for Technical Education (AICTE) from 16-20 August, 2021.

- Successfully completed a two week online FDP on "***Machine Learning for Computer Vision***" jointly organized by the Electronics and ICT Academies at IIT Guwahati, IIT

Kanpur, IIT Roorkee, MNIT Jaipur, NIT Patna, NIT Warangal and PDPM IIITDM Jabalpur during Feb 1-12, 2021, under a special scheme of MeitY, Government of India.

- Successfully qualified a National level quiz on "***Python Language***", held on 02nd July 2020, organized by BPIT, New Delhi in collaboration with Spoken Tutorial IIT Bombay.

- Attended a 1 week Faculty Development Program on "***Python Programming***", organized by BPIT, New Delhi in collaboration with Spoken Tutorial IIT Bombay, from 23rd June – 29th June 2020.

- Attended a 1 week AICTE-ATAL FDP on the topic "***Artificial Intelligence – Algorithms to Approach***", organized by IIIT Delhi from 8th June – 12th June 2020.

- Attended a 1 week Faculty Development Program on "***Python and emerging trends in Machine Learning***" organized by FORSK coding school, Jaipur from 02-06th June 2020.

- Attended a 1 week short term course on "***Deep Learning and its applications***" organized by Jaypee Institute of Information Technology, Sector 62, Noida, India from 01st – 06th July 2019.

- Attended a 1 week Faculty Development Program on "***Deep Learning for image and text analysis with Python***" organized by Bharti Vidyapeeth's College of Engineering, New Delhi in association with EDC-IIT Roorkee from 27th November to 01st December 2017.

- Attended a 2 Weeks Course on "***Mechatronics***" organized by Deptt. Of Mechanical Engg. JMI 15th June to 5th July 2015.

- Attended a *3 Weeks Refresher Course* in IT organized by UGC ASC Panjab University, Chandigarh during 15th June to 5th July 2012.

- Attended a *4 Weeks Orientation Program* organized by UGC Academic Staff College JMI during 15th July to 11th Aug 2011.

- Attended a two days' workshop on "***Secure Coding***" organized by CERT, Delhi in the year 2010.

- Attended a Faculty development program at the Netaji Subhash Institute of Technology (NSIT), New Delhi organized by Tata Consultancy Services (TCS).

Member of Committees at various Institutions / Conferences / Journals

- Member of the Expert Committee at the Union Public Service Commission (UPSC), Govt. of India.
- Member of the Institution's Innovation Council (IIC 4.0) of Jamia Millia Islamia, New Delhi.
- Program Coordinator of the One Week Faculty Development Program on ***Python Programming*** organized by the Department of Computer Engineering JMI during 07th – 11th Sept 2020.
- Member of the Technical Program Committee for the Springer International conference – MIDAS held during 4th-5th September 2020 organised by the University of Petroleum and Energy Studies, Dehradun, Uttarakhand, INDIA.
- Member of the Technical Committee at the Indian Computer Emergency Response Team (CERT-In), Ministry of Electronics and Information Technology, Government of India, during 2019-20,
- Reviewer for the IEEE International conference – ICPECA 2019 held on 16th – 17th Nov 2019 organised by the Department of Electrical Engineering, Jamia Millia Islamia, New

Delhi, INDIA.

- Session Chair at ICCTICT 2016, IEEE International Conference GGSIPU New Delhi., held on 11th -13th March 2016
- Member of the Subject Expert Committee at the Consortium for Educational Communication (CEC-UGC) since 2012.
- AdHoc Reviewer for the International Journal of System Dynamics Applications (IJSDA), IGI Global Publication.
- Actively serving as reviewer for various International Journals including, Scientific Reports (Nature), NeuroComputing (Elsevier), Applied Soft Computing (Elsevier), Multimedia Tools and Application (Springer), Journal of Machine Learning and Cybernetics (Springer), Computational Intelligence (Wiley) etc.

<u>Administrative Responsibilities held</u>

- President (Badminton) and member of University Sports Committee from May 2016 till Feb 2022.
- Member of the sports committee at Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi.
- Technical coordinator of the Library Server Facility at the Faculty of Engineering and Technology Library since May 2012.
- Supervised the project for CCTV surveillance of the university as a Project Technical Advisor during 2008-2014.

<u>Professional References</u>

Name	Designation	Institute	Known since	Contact (email)
Prof. M. N. Doja	Hony. Director	IIIT Sonepat, Haryana	2002	ndoja@yahoo.com
Mohammad Fahim	Data Scientist	Intel Corporation, Portland Oregon, USA	2003	fahim.mohammad@intel.com
Prof. Tanvir Ahmed	Professor	Department of Computer Engineering, Jamia Millia Islamia, New Delhi	2003	tahmad2@jmi.ac.in

<u>Research Profiles</u> (Online)

Google Scholar	https://scholar.google.co.in/citations?user=4nOJTosAAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57188975035
ResearchGate	https://www.researchgate.net/profile/Sarfaraz_Masood

Date: - 01st May 2023
Place: - New Delhi   **(Dr. Sarfaraz Masood)**