Curriculum Vitae

1. Name: Dr. MUMTAZ AHMED

2. Designation: ASSOCIATE PROFESSOR

3. Office Address:

Room No 210, Department of Computer Engineering,

Faculty of Engineering & Technology,

Jamia Millia Islamia,

New Delhi-110025

4. Telephone (Office):26980281

Mobile (Optional): 9911669991

5. Email (Primary): ahmedmumtaz01@gmail.com
Email (Secondary): mahmed1@jmi.ac.in

6. Field(s) of Specialization: Computer Networks, Adhoc Networks, Wireless Sensor Netwroks, Artificial Intelligence

7. Employment Profile:

Job Title	Employer	From	To
Associate Professor	JMI	28/03/2021	Till date
Assistant Professor	JMI	28/03/2018	28/03/2021
Assistant Professor	JMI	28/03/2013	28/03/2018
Assistant Professor	JMI	06/08/2007	28/03/2013
Network Engineer	BGSBU	17/07/2005	31/07/2007

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Subjects
Ph. D	FET, JMI	2021	Computer Engineering
Master of Engineering	DCE, DU	2013	Computer Technology
Bachelor of Technology	FET, JMI	2004	Computer Engineering
Higher Secondary School	J&KBOSE	1997	Non Medical
High School	J&KBOSE	1994	EN, UR, MA, GS, SS

9. Academic/Administrative Responsibilities within the University :

   a. In-charge of Internal Examinations in the Department of Computer Engineering from the year 2009 till date.

   b. In-charge of Time Table in the Department of Computer Engineering from the year 2010-2024.

   c. Assistant Superintendent of Examination in the Faculty of Engineering & Technology.

   d. Senior Warden, Kellat Hostel, Zakir Hussain Hall of Boys Residence.

10. Details of Academic Work

    (i) Course Curriculum Development
       a) Computer Networks
       b) Internet Fundamentals
       c) Artificial Intelligence
    (ii) Theory Courses taught at Undergraduate level
       a) Discrete Mathematics
       b) Computer Networks
       c) Internet Fundamentals
       d) OOPS
       e) Artificial Intelligence
       f) Information Technology
       g) Fundamentals of Computing
    (iii) Lab Courses taken at undergraduate level
       a) Linux/Shell Programming
       b) Linux Utilities
       c) C Programming
       d) OOPS
       e) Computer Graphics
       f) Computer Networks
    (iv) Theory Courses taken at Post Graduate Level
       a) Advanced Computer Networks
       b) Intelligent Systems

11. Participation in Workshops Symposia/ Conferences/ Colloquia /Seminars etc.
    a) Attended a two week ISTE Workshop on Database Management Systems conducted by Indian Institute of Technology, Bombay from 13th to 23rd December 2010.
    b) Attended a two week ISTE Workshop on Effective teaching/learning of Computer Programming conducted by India Institute of Technology Bombay from 28th June to 10th July 2010.
    c) Attended a one day workshop on DBMS conducted by TCS at Netaji Subhash Institute of Technology, New Delhi.

12. Achievements and Honors.

    a) Qualified GATE 2012.

13. FDP/Short term Courses/OC/RC Attended

    a) Participated in four week Orientation Programme organized by UGC-ASC, Jamia Millia Islamia, New Delhi from 16th July to 13th August, 2012.

    b) Participated in the Refresher course organized by the UGC-ASC, University of Jammu in the Subject Computer Science and IT(ID) from 09th December to 29th December 2011.

    c) Attended International Faculty Development Programme on "Recent Trends in Computer Science & IT", Raj Kumar Goel Institute of Technology. Ghaziabad from 13th – 17th July, 2020 (One Week).

    d) Attended an FDP Programme on "Foundations of Blockchain Technology", Department of Computer Science and Engineering. NITTTR, Chandigarh from 27th July -31st July 2020 (One Week).

    e) Attended an FDP Programme on "Python Programming Language", Department of Computer Engineering, JMI, New Delhi from 31st Aug – 04th Sep. 2020 (One Week).

    f) Participated in a two week FDP "NEP 2020 Orientation and Sensitization Programme" organised by MMTTC, Jamia Millia Islamia, New Delhi from 22nd January to 01st January 2024.

    g) Participated in a One week FDP on "GENERATIVE AI" organised by Department of Electronics and Telecommunication, DY Patil College of Engineering, Pune from 04th March to 09th March 2024.

    h) Attended a three week STTP on "AI &ML" organised by the Department of Computer Engineering, Jamia Millia Islamia from 04th-22nd July 2023.

    i) Attended a three week STTP on "AI &ML" organised by the Department of Computer Engineering, Jamia Millia Islamia from 01st -19th July 2024.

    j) Participated in a One week FDP on "Additive Manufacturing for sustainability and industry 4.0" organised by the Department of Mechanical Engineering, Jamia Millia Islamia from 18th- 22nd November 2024.

14. Publications and Presentations in National/International Conferences.

    1. Jameel Ahmed, Gausia Qazi, Mumtaz Ahmed, "Investigation of Sensitivity Performance to Pulse Shapes in OTDM System". Fourth International Conference on Emerging Trends in Engineering & Technology (IETET-2013). Geeta Institute of Management & Technology, Kurukshetra, INDIA-136131. October 25th -27th, 2013.

    2. Anshuman Goel, Md. Sheezan, Mumtaz Ahmed, "Distributed Dynamic Channel Allocation in Interference Limited Sectored Cellular Network". International Conference on Computing for Sustainable Global Development. 5th -7th December, 2014. INDIACom-2014 (IEEE Xplore) https://ieeexplore.ieee.org/document/6828084

    3. Sarfaraz Masood, Tarun Luthra, Himanshu Sundriyal, Mumtaz Ahmed, "Identification of Diabetic Retinopathy in Eye Images Using Transfer Learning" International Conference on Computing, Communication and Automation (ICCCA2017) 5-6 May2017(IEEE Xplore) https://ieeexplore.ieee.org/document/8229977 .

4. Piyush Kumar, Mumtaz Ahmed, "A transfer learning CNN approach for enhanced lymphocyte classification. "International conference on Artificial Intelligence and Networking (ICIAN-2024) organised by GTBIT, GGSIPU, Delhi.

5. Md Mahtab Alam, Mumtaz Ahmed, " Deep Learning based Collaborative Filtering Recommendation Systems" International Conference on machine learning and data Engineering (ICMLDE-2024) held from Nov.28-29, 2024 at School of Computer Science, UPES, Dehradun, India.

6. Md. Mahtab Alam, Mumtaz Ahmed, "Deep Learning based Recommendation Systems: Review and critical analysis". International Conference on Data Analytics and Management (ICDAM-2023) held from 23-24 June 2023 at London Metropolitan University, London, UK.

15. Publications in National/International Journals.

1. Mumtaz Ahmed. "A New Searching Technique used for Audio Fingerprinting". International Journal of Electronic and Electrical Engineering. Volume 5, November 2012. ISSN 0974-2174.

2. Mumtaz Ahmed, M. N. Doja "Energy Efficient MAC Protocols for Wireless Sensor Networks". International Journal of Computer and Mathematical Sciences, Volume 5, Issue 5 No. 2, 2016 ISSN: 2347-8527.

3. Mumtaz Ahmed, Danish Raza Rizvi. "Prediction and Analysis of Air Particulate matter in Delhi", International Journal of Research. Volume VIII, Issue II, February 2019. (ISSN 2348-6848). (UGC LISTED)

4. Jameel Ahamed, Amir Khan and Mumtaz Ahmed "Investigation of Modulators in OTDM System."International Journal of Computer Applications (IJCA) 90(10):16-19, (ISSN-0975 – 8887) March 2014 https://doi.org/10.5120/15756-4381

5. Mumtaz Ahmed, M. N. Doja "Energy Efficient Distributed Clustering and Scheduling Algorithm for Wireless Sensor Networks with Non-uniform Node Distribution". International Journal of Advanced Research in Computer Science. Volume 9, No. 2, March-April 2018, https://doi.org/10.26483/ijarcs.v9i2.5485

6. Danish Raza Rizvi, Sarfaraz Masood, Umer Ahsan, Fatima Munawwar, Mumtaz Ahmed, "Scene Recognition from Image Using Convolutional Neural Network", Procedia Computer Science, Volume 167, January 2020. (ISSN: 1877-0509) (SCOPUS) (ELSEVIER) DOI: https://doi.org/10.1016/j.procs.2020.03.400

7. Mohd Zeeshan Ansari, Mumtaz Ahmed. "A Hybrid Approach for Fake News Detection using Convolution and Multilayer Perception", International Journal of Computer Science and Engineering, Vol.7 , Issue.4 , pp.1181-1187, Apr-2019 https://doi.org/10.26438/ijcse/v7i4.11811187

8. Danish Raza Rizvi , Mumtaz Ahmed, , Sarfaraz Masood, Adil Masood, Faiyaz Ahmad, "Machine Learning Approach for Predicting the Quality of Water", International Journal of Advanced Science and Technology, Volume 29, Issue 5s, 2020. (ISSN:2005-4238) (SCOPUS) (ELSEVIER) LINK: http://sersc.org/journals/index.php/IJAST/article/view/7133

9. Danish Raza Rizvi , Faiyaz Ahmad, Iqra Nissar, Sarfaraz Masood, Mumtaz Ahmed, "An LSTM based Deep learning model for voice-based detection of Parkinson's disease", International Journal of Advanced Science and Technology, Volume 29, Issue 5s, 2020. (ISSN:2005-4238) (SCOPUS) (ELSEVIER) LINK:

http://sersc.org/journals/index.php/IJAST/article/view/7166

10. Mumtaz Ahmed, M.N. Doja, Mohd Amjad. "Energy Optimization in Wireless Sensor Networks under Dynamic Spectrum Access Using Adaptive Listening", Recent Patents on Engineering, Volume 14, Issue 3, 2020, https://www.eurekaselect.com/public/article/106619

11. Mumtaz Ahmed, M. N. Doja, Mohd Amjad. "An Energy efficient IS-MAC based coordination function (DCF) for wireless passive sensor networks", Journal of Information and Optimization Sciences. Volume 41(2020). No. 2. https://doi.org/10.1080/02522667.2020.1733185

12. Mumtaz Ahmed, Neda Afreen, Muneeb Ahmed, Mustafa Sameer, Jameel Ahamed "An inception V3 approach for malware classification using machine learning and transfer learning", International Journal of Intelligent Networks–Elsevier (ISSN 2666-6030), 2022, Scopus https://doi.org/10.1016/j.ijin.2022.11.005

13. Mumtaz Ahmed, Aqib Nazir Mir "EAACK-Intrusion Detection System for MANET", Indian Journal of Computer Science and Engineering, Vol. 8 No.6 2017 (ISSN: 0976-5166) http://www.ijcse.com/docs/INDJCSE17-08-06-055.pdf

14. Mumtaz Ahmed, M. N. Doja "Reduction of Energy Consumption in Dynamic Spectrum Access in Wireless Sensor Networks using S-MAC". International Journal of Advanced Research in Computer Science. Volume, No. 5, May-June 2017. https://doi.org/10.26483/ijarcs.v8i5.3901

15. Danish Raza Rizvi, Mumtaz Ahmed, "Brain Alzheimer's Disease Detection in Magnetic Resonance Images using Image Processing", International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Volume 5, Issue 6, June 2017. (ISSN 2321-8169) (UGC LISTED) DOI: https://doi.org/10.17762/ijritcc.v5i6.970

16. Mohd Javaid, Abid Haleem, Ravi Pratap Singh, Mumtaz Ahmed, "Computer vision to enhance healthcare domain: An overview of features, implementation, and opportunities". Intelligent Pharmacy Volume 2, Issue 6, December 2024, Pages 792-803. https://doi.org/10.1016/j.ipha.2024.05.007

17. Md Nadeem Noori, Jameel Ahamed, Mumtaz Ahmed, "Matrix Factorization and Cosine Similarity Based Recommendation System For Cold Start Problem in E-Commerce Industries". International Journal of Computing and Digital Systems. No. 1, Feb 2024. https://doi.org/10.12785/ijcds/150156

18. Mumtaz Ahmed, " Smart end-point system for ensuring efficient monitoring and management of potential threats in Networks". Journal of Electrical Systems, 20-3(2024).

19. Liyaqat Nazir, Mohd Asifuddola, Mumtaz Ahmed, Mir Mohsin Rahman," Implementation of Dimension Order routing algorithm on reconfigurable hardware for NoC applications". Journal of Electrical Systems, 20-10s (2024).

20. Mohd Asifuddola, Mumtaz Ahmed, Liyaqat Nazir, Mohd Ahsan Siddiqui, Shakeel Ahmad Malik and Mohammad Ahsan Chishti, "A Multi-radio channel hopping rendezvous scheme in cognitive radio networks for Internet of things". International Journal of Computing and Digital Systems. Vol 17, No.1, 1-10 2025. https://doi.org/10.12785/ijcds/1571087751

21. Mohd Asifuddola, Mumtaz Ahmed, Zahir Abbas Khan, Mohd Ahsan Siddiqui, Liyaqat Nazir. "AHCS: Advanced Healthcare System for Critical care Integrated with AI and Fog Computing in IoT Environments" Nanotechnology Perceptions. 20 No. S14 (2024).

Project/Dissertation Supervision:

Master of Technology

S. No.	Name of the Student	Title	Status
1.	Aman Raj Roll No: 21MCS003	SeDeepLab3+: A New Hybrid Deep Learning Tool to Invert The High Resolution Ground Penetrating Radar Data	Awarded
2.	Shafiya Ayoub Roll No: 21MCS018	Skin Lesion Classification Using Deep Learning	Awarded
3.	Maria Khan Roll No: 20MCS010	Text to Image Generation Using Deep Learning	Awarded
4.	Anishma Yadav Roll No: 20MCS001	Role Of Data Science Towards Industry 4.0 in Supply Chain Management	Awarded
5.	Nasreen Parween Roll No: 19MCS014	Paddy Plant Leaf Disease Recognition and Classification Using Machine Learning Technique	Awarded
6.	Shahnawaz Anwar Roll No: 19MCS019	Real-Time Sign Language Detection in Human Pose Estimation Using Deep Learning	Awarded
7.	Neda Afreen Roll No: 18MCS013	IoT Based Automatic Power Control Using Object Detection for Home Automation System	Awarded
8.	Pratik Kumar Singh Roll No:18MCS016	Optimization of Circuits for IBM's Five Qubit Quantum Computers	Awarded

Doctorate of Philosophy (Ph.D.).

S. No.	Name of the Student	Title	Date of Admission	Status
1.	Piyush Kumar Gupta Roll No: 21PHDCOM011 Enrolment No: 21-00330	Machine Learning Methods for Detecting and Classifying Lymphoma Cancer	07.09.2021	Pursuing
2.	Md Mahtab Alam Roll No: 21PHDCOM009 Enrolment No: 21-00328	Differential Approaches to Improve the Performance of Recommendation Systems	02.09.2021	Pursuing
3.	Iffat Zarrin Roll No: 21PHDCOM005 Enrolment No: 21-00324	Image Based Screening of Ophthalmic Diseases using Machine Learning Techniques.	02.09.2021	Pursuing

4.	Mohd. Anas Roll No:23PHDCOM011 Enrolment No:	Hate Speech Detection in social Networks using Machine Learning and Deep Learning Methods	04.04.2024	Pursuing
5.	Neelam Roll No: 23PHDCOM010 Enrolment No:	Design and Development of an advance Plants Disease detection system using Deep learning for Precision Agriculture	02.04.2024	Pursuing