

## CURRICULUM VITAE

1. **Name:** Prof M. Afshar Alam
2. **Designation:** Vice- Chancellor, Professor & Dean
3. **Department:** Department of Computer Science & Engineering  
School of Engineering Sciences & Technology  
Jamia Hamdard, New Delhi-110062
  
4. **Institution:** Jamia Hamdard, New Delhi
5. **Contact Number:** Phone No. (O) : 011-26059816 (D)  
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6. **E-mail:** mailtoafshar@rediffmail.com  
aalam@jamiyahamdard.ac.in
  
7. **Date of Birth:** 12.09.1970
  
8. **Gender:** Male
  
9. **Membership of Professional Bodies/Societies:**
  - Fellow IETE
  - Indian Society for Technical Education
  - Computer Society of India
  
10. **Training / Certificates:**
  - Leadership for Academicians Programme (LEAP), 2019, Awarded By MHRD, Government of India
  - Certificate in “The Sustainable Development Goals- A Global, Transdisciplinary Vision for the Future” awarded by University of Copenhagen, Denmark, 2020
  - Certificate in “Introduction to Virtual Reality” awarded by University of London, UK
  
11. **Best Paper Award**
  - M Afshar Alam, Anil Joseph D’Costa, Siddhartha Sankar Biswas, Md Tabrez Nafis, Sherin Zafar,” **Enterprise IoT Core Platform**”, 8th International Conference on Recent Trends in Computing (ICRTC 2020) at Department of Computer Science at SRM Institute of Technology ,Delhi ,NCR Campus.which will be published in “Lecture Notes in Networks and Systems” by Springer.
  - Sharmeen Khan , M. Afshar Alam , N.R. Shankar Ram , Khushboo Mirza , V.M. Chowdary, “**Noise reduction of time-series satellite data using various denoising algorithms**” in International Online Conference on Advances in Computing, Communication and Green Technology 2020 at School of Engineering and Technology ,Ansal University,Gurgaon.
  - *M. Afshar Alam and Anam Saiyeda,* “ **A Cloud-Based Solution for Smart Education: An Extended Version**”, International Conference on Innovative Research in Computer

Science and Information Technology, “Advanced Computing Trends & Cyber Security”  
 March 30, 2019 In Technical Collaboration With Computer Society Of India (CSI)  
 Supported by MeitY & DRDO Organised By Institute of Innovation in Technology &  
 Management, Delhi 2019, Published in Role of ICT in Higher Education Trends,  
 Problems, and Prospects, Apple Academic Press, ICIRCSIT’ 2019

12. **Academic Qualifications: (Undergraduate Onwards)**

S.No.	Degree	Year	Subject	University/Institution	% of Marks
1	PhD	2005	Intuitionistic Fuzzy Database	Jamia Millia Islamia	
2	MCA	1995	Computer Science	AMU, Aligarh	Distinction
3	BSc (Hons.)	1991	Physics, Chemistry, Maths	AMU, Aligarh	Distinction

13. **Ph.D. Thesis Title:** Intuitionistic Fuzzy Database  
**Guide Name:** Prof Ahmed  
**Institution:** JMI, New Delhi  
**Year of Award:** 2005

14. **Work Experience (in chronological order)**

S.No.	Position held	Institution	From	To	Pay Scale
1	Professor	Jamia Hamdard, New Delhi	13/07/2007	Till date	Rs 37000-67000 AGP Rs. 10,000/- Rs. 211800/- (7th Pay Commission) Gross Salary : Rs. 307062/-
2	Head, Computer Centre	Jamia Hamdard, New Delhi	02/12/1999	13/08/2007	
3	Head of the Department	Jamia Hamdard, New Delhi	23/02/2017 14/08/2007 12/03/2005	Till Date 26/06/2011 13/08/2007	-
4	Dean of the Department	Jamia Hamdard, New Delhi	23/02/2017 14/08/2008	Till date 14/08/2010	-
5	Member of Academic Council	Jamia Hamdard, New Delhi	12/03/2005	Till Date	
6	Member of Executive Council	Jamia Hamdard, New Delhi	14/08/2009	14/08/2010	
7	Others(specify)	UGC nominee (Governing bodies of			

		various Autonomous college for five years, Ministry of HRD
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**15. Professional Recognition/ Award/ Prize received by the member**

S.No.	Name of Award	Awarding Agency	Year
1	Bharat Samaj Ratan Award	Media, 24 X 7, Delhi.	2019
2	AMP Award for Excellence in Education	AMP Society, Mumbai	2017
3	Cooperate Citizen Award	Skills Academy, New Delhi	2005
4	Spardha Shree Award	All India Unique Sports Cultural Organization	1999
5	World Environment Day Award	International Association of Educators for World Peace	1997

**16. Participation and Contribution in NATIONAL/INTERNATIONAL for in the academic and professional expertise**

Details		Number (s)
Plenary Lecturers/Invited Talks	International	5
	National	20
Congresses attended	International	-
	National	2
Examinership etc.	International	5
	National	25
Others ( Specify)	International	Delegation of Haj
	National	

**17. VISITING FACULTY: International /National**

- Worked as Visiting Professor of Computer Science, Hadhramout University of Science & Technology, Yemen (September 2003 to February 2004).
- Worked as visiting faculty at Fore School of Management, New Delhi.
- Worked as visiting faculty at Centre for Information Technology, Jamia Millia Islamia, New Delhi to teach Computer Science Papers.
- Worked as visiting faculty to teach Diploma Course for evening courses at AMU, Aligarh.
- Worked as visiting faculty to teach BCA Course for BIT, Saket, New Delhi.
- Worked as visiting faculty to teach MCA for I.P. University.
- Worked as faculty to teach DODL Programme of Jamia Hamdard.

**18. EXAMINERSHIP**

- Worked as External Examiner for Theory and Practical Examination at different Universities like JMI, IP, AMU, Aligarh, Calicut University, Calicut, Delhi University, MLCRU, and Manipal etc.
- Worked as NET Examiner of UGC, Govt. of India for selection of Lecturer.
- Worked as IGNOU Examiner of MCA & BIT/BCA Courses.

## 19. DEVELOPMENT OF CENTRE

- Developed the University Computer Centre of Jamia Hamdard including Computer Wide Networking and submitted many projects to UGC and also got approval of UGC for grant of Rs. 1.5 Crores for Computer Centre/ ERNET Project/ Campus Wide Network.

## 20. CONSULTANCY EXPERIENCE

- Airtel, Training (Computer Networking) for 1 year.

## 21. PREPARATION OF MANUSCRIPTS

Sno	Manuscripts
1	Draft Curriculum and Bye-laws of B.Tech Programme, Jamia Hamdard.
2	Draft Curriculum for M.Tech (weekend) programme, Jamia Hamdard.
3	Draft Curriculum and Bye-laws of MCA of Jamia Hamdard.
4	Re Draft Curriculum and Bye-laws of MCA/M.Sc./BCA of Jamia Hamdard.
5	Draft Curriculum and Bye –laws of MBA (Health Informatics) of Jamia Hamdard.
6	Draft Curriculum and Bye-laws of BCA & M.Sc of Jamia Hamdard.
7	Draft detailed revised Syllabus of BIT of Jamia Hamdard.
8	Draft detailed Syllabus of BCA of Jamia Hamdard.
9	Draft detailed Syllabus of Diploma in Hardware & Networking, DODL, Jamia Hamdard.
10	Draft Curriculum and Byelaws of B.Sc. (Engg.) Computer Science, Hadhramount University of Science & Technology, Yemen.

## 22. MEMBERS OF BOARDS/COUNCILS/ GOVERNMENT COMMITTEE MEMBER

Sno	Governing Member
1	UGC nominee (Governing bodies of Various Autonomous college for five year, Ministry of HRD)- <ul style="list-style-type: none"><li>➤ Ram Krishna Mission, Kolkata, West Bengal.</li><li>➤ St. Agnes, Mangalore.</li><li>➤ Ram Krishna Mission, Coimbatore.</li><li>➤ SRS Sons College Coimbatore.</li><li>➤ JNTU College of Engineering, Hyderabad.</li><li>➤ Islamic College, Srinagar.</li></ul>
2	Member of UGC committee For UGC-NET, TA, Computer Centre, Travel grant, Central University, DU College etc.
3	Chairman, UGC Committee on Autonomous status grant to college.

4	Member, Expert committee in Ministry of Science and Technology.
5	Member, E-Governance committee, DST, Govt of India
6	Member, PAC, SERB, DST.
7	Member of various Committee of AICTE take Hearing Committee Assessment committee, Visiting AICTE Committee, NBA, Govt. of India.
8	Member of High powered Committee in NCPUL, Ministry of HRD, Govt. of India.
9	Member of Selection Committee JMI, AMU, Kashmir University, SNDT University, Member, Delhi University.
10	UGC observer of various universities in selection committee.
11	Member, Executive Council, Jamia Hamdard.
12	Member, Management Advisory Committee for utilization of Scientific Expertise of Retired Scientists, Deptt. of Science & Technology Ministry of Science & Technology, Govt. of India, New Delhi.
13	Member of UGC Expert Committee for upgradation of Computer Centre and different University, Govt. of India, New Delhi.
14	Member of UGC Expert Committee of UGC Net, Govt. of India.
15	Member of AICTE for Assessment & Monitoring .
16	Member of AICTE NBA Committee, Ministry of HRD, Govt. of India, New Delhi.
17	Member of AICTE Hearing Committee, Ministry of HRD, Govt. of India, New Delhi.
18	Member of Board of Governors, GNIT Engg College, U.P. Tech. University.
19	Member of Technical Committee in NCPUL, Ministry of HRD, Govt. of India, New Delhi.
20	Member of Technical Committee in Pondicherry University.
21	Member of Technical Committee in Delhi Technological University for implementation of e- Governance.
22	Member of Management Advisory Committee (MAC) in Department of Science & Technology (Science & Engg. Research Council), Govt. of India.
23	Member of Academic Council, Jamia Hamdard.
24	Member of Executive Council, Jamia Hamdard.
25	Member of Board of Studies, Deptt. of Com. Science & Engg., Institute of Technology & Management, Gurgaon.
26	Member of Technical Committee of Pondicherry University.
27	Member of Board of Governors (the highest body of the institute) of Greater Noida Institute of technology.
28	Member, Computer Society of India.
29	Life member, Indian Society for Technical Education.
30	Chairman, Advisory Committee, Banarsidas Chandiwala Institute of Information Technology & I. P. University, Delhi.
31	Member of Board of Studies, Department of Computer Science, University of Kashmir.
32	Member of High Powered Committee in Computer Education of NCPUL, Govt. of India, New Delhi.
33	Member of Board of Studies, Department of Computer Science, AMU, Aligarh.

34	Chairman of Board of Studies of Department of Computer Science and Department of Management, FMIT, Jamia Hamdard, New Delhi.
35	Member of High Powered Committee, Ministry of HRD, Govt. of India, New Delhi.
36	Member, Expert Committee, DOEACC, New Delhi.
37	Expert member for Ph.D./M.Phil, IGNOU, Delhi.
38	Expert member for Ph.D./M.Phil, Jamia Millia Islamia, ND.
39	Member, AICTE Expert Committee.
40	Member of Technical Committee (STPI Project).
41	Convener of International Workshop conducted by UGC.
42	Member, Central Computer Purchase Committee.
43	Expert Committee member of UGC for providing grant to Computer Centre and different University.
44	Observer, UGC Net Examination, UGC, Govt. of India.

### 23. MEMBER OF THE INTERNATIONAL ADVISORY BOARD

<ol style="list-style-type: none"> <li>1. Member Programme Committee 4<sup>th</sup> International Conference on Software engineering (SOENG) 2018, April 28-20 2018, Copenhagen, Denmark</li> <li>2. India COM 2009-2017, Member, International Advisory Committee</li> <li>3. Member, International Advisory committee, 11<sup>th</sup> World Conference on Applied Science, Engineering and Technology, 01-02, Nov 2018</li> <li>4. Member, Institute of Engineering Research and publications, Dubai</li> </ol>
<p><b>OTHERS:</b> Member of various programme committees and review committees in National &amp; International Seminars.</p>

### 24. Country Visited

Australia, Bangladesh, China, Iran, Iran, Malaysia, Nepal, Oman, Saudi Arabia, Singapore, Sri-Lanka, Syria, Taiwan, UAE, Yemen

### 25. Book Edited

- Sherin Zafar , Mohd Abdul Ahad,, M. Afshar Alam , Kashish Ara Shakil , Green Automation for Sustainable Environment,2020 , ISBN-10 : 0367422387, ISBN-13 : 978-0367422387, CRC Press; 1st edition (1 October 2020)

26. **Publications (List of papers published in SCI Journals, in year wise descending order).**

<b>PUBLICATIONS</b>			
<b>PAPERS PUBLISHED- JOURNALS</b>			
<ul style="list-style-type: none"> <li><b>Indexing:</b> Google Scholar, SCIRUS, Scientific Commons, OAJ, Arxiv, Citeseer X, Docstoc, Scirate.com, Directory of Open Access Journals(DOAJ), Google Scholar ,getCITED, Index Copernicus.</li> </ul>			
<b>Sno</b>	<b>Title</b>	<b>Year</b>	<b>Journal name</b>
	Sprouting Tree for Physiological Stress Assessment Using Fuzzy Petri Net	2023	Current Psychiatry Research and Reviews Formerly: Current Psychiatry Reviews, Volume-19, Issue-3, Pages-314-324, Publisher-Bentham Science Publishers
	Prof Dr M. Afshar Alam . Cloud sans server architecture for sustainable development in smart cities: Indian perspective	2023	Wireless Networks, Pages-1-14, Publisher-Springer US
	A Diffusion Model Based on the Features of the 3D Chaotic Baker Map for Image Encryption	2023	Journal: International Journal of Intelligent Systems and Applications in Engineering, Volume-11, Issue-5s, Pages-173-180
	Securing and managing healthcare data generated by intelligent blockchain systems on cloud networks through DNA cryptography	2023	Journal of Enterprise Information Management Publisher-Emerald Publishing Limited
	Human-Centric Aggregation via Ordered Weighted Aggregation for Ranked Recommendation in Recommender Systems	2023	Applied System Innovation, Volume-6, Issue-2, Pages-36, Publisher-MDPI
	BAuth-ZKP—A Blockchain-Based Multi-Factor Authentication Mechanism for Securing Smart Cities	2023	Sensors, Volume-23, Issue-5, Pages- 2757, MDPI
	Evaluation of Antidiabetic Effect of Luteolin in STZ Induced Diabetic Rats: Molecular Docking, Molecular Dynamics, In Vitro and In Vivo Studies	2023	Journal of Functional Biomaterials, Volume-14, Issue 3, Pages-126, Publisher-MDPI
1	Enterprise IoT Core Platform	2020	Lecture Notes in Networks and Systems” by Springer
2	Noise Reduction Of Time-Series Satellite Data Using Various Denoising Algorithms	2020	International Journal of Technical Research & Science (Special Issue) ISSN No.:2454-2024 (online)
3	Accessing Sensor Data via Hybrid Virtual Private Network Using Multiple Layer Encryption Method in Big Data	2020	Cognitive Informatics and Soft Computing, DOI: 10.1007/978-981-15-1451-7_20
4	Modified Support Vector Machine for Detecting Stress Level Using EEG Signals	2020	Computational Intelligence and Neuroscience, vol. 2020, ArticleID 8860841, 14 pages, 2020. <a href="https://doi.org/10.1155/2020/8860841">https://doi.org/10.1155/2020/8860841</a>
5	Effective Predictive Analytics and Modeling Based on Historical Data	2019	Advances in Computing and Data Sciences, DOI: 10.1007/978-981-13-9942-8_52

6	A Novel Trust Establishment Model in SIoT Network based on Sociological Aspects of Users in Social Networking Services	2019	, Indian Journal of Science and Technology, Year: 2019, Volume: 12, Issue: 17, Pages: 1-8, DOI: 10.17485/ijst/2019/v12i17/143128
7	Partitioning and hierarchical based clustering: a comparative empirical assessment on internal and external indices, accuracy, and time	2019	International Journal of Information Technology ,2019, DOI: 10.1007/s41870-019-00406-7
8	Visualisation and Analysis of BigData through Business Intelligence.	2019	International Journal of Computer Sciences and Engineering, Volume-7, Issue-4.
9	A Prediction Approach for Stock Market Volatility Based on Time Series Data.	2019	IEEE Access, ACCESS.2019.2895252,
10	A Conceptual View on Cloud Computing Environments.	2019	OSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 21, Issue 3, Ser. III.
11	Advance DDOS detection and mitigation technique for securing cloud.	2018	International Journal of Computational Science and Engineering 16(3):303
12	A Proposed Solution and Future Direction for Block-chain-Based Heterogeneous Medicare Data in Cloud Environment.	2018	Journal of Medical Systems (2018) 42:156.
13	Determination of Crystallization Kinetics Parameters of In 3 Te 7 Bi 5 Se 85 Chalcogenide Glass using Differential Scanning Calorimetry.	2018	International Journal of Management, Technology And Engineering Volume 8.
14	Optical and Electrical Properties of Chalcogenide GlassThin Film.	2018	International Journal of Management, Technology And EngineeringVolume 8, Issue XI.
15	Using Unstructured Big Data and Web Content Mining for Price Spread Analytics	2018	International Journal of Management, Technology And Engineering.
16	Speech Recognition: A Review	2018	IJRECEVOL.6ISSUE 1JAN.-MAR.
17	Novel Secured Biometric System Procuring Miniaturized Prorogation.	2018	International Journal of Computer Network and Information Security.
18	Dynamic time warping (dtw) algorithm in speech: a review	2018	IJRECEVOL.6ISSUE 1JAN.-MAR.
19	A study of big data and its challenges.	2018	International Journal of Information Technology
20	Comparative Study of Traditional Database and Cloud Computing Database.	2017	International Journal of Advanced Research in Computer Science, Volume 8, No. 2.
21	Edge Up Green Computing in Cloud Data Centers	2017	International Journal of Advanced Research in Computer Science 8 (2).
22	Cloud Computing in Higher Education in India	2017	International Journal of Advanced Research in Computer Science 8 (5).
23	Intrusion Detection Systems based on Artificial Intelligence.	2017	International Journal of Advanced Research in Computer Science.
24	Study and Analysis of Energy Efficient Data center for Sustainable Development of ICT.	2017	International Journal of Advanced Research in Computer Science 8 (5).
25	A proposed structured digital investigation and documentation model (didm).	2017	International Journal of Advanced Research in Computer Science 8 (7)
26	Cloud Computing: Issues and Security Challenges	2017	International Journal of Advanced Research in Computer Science 8 (7)
27	Issues and Challenges of Cyber Security for Social Networking Sites (Facebook)	2016	International Journal of Computer Applications 144 (3).
28	A multi-intelligent agent system for automatic construction of rule-based expert system.	2016	International Journal of Intelligent Systems and Applications.
29	Environmental Noise Classification using LDA, QDA and ANN Methods	2016	Indian Journal of Science and Technology 9 (33).
30	Highly Discriminative Features for Phishing Email Classification by SVD.	2015	Information Systems Design and Intelligent Applications, pp. 649-656. Springer India.



31	Ensuring Data Security and Performance Evaluation in Cloud Computing.	2015	Intelligent Computing, Communication and Devices pp 415-423, Advances in Intelligent Systems and Computing, vol 308, Springer India.
32	Highly Discriminative Features for Phishing Email Classification by SVD.	2015	International Journal of Information Systems Design and Intelligent Applications, pp. 649-656. Springer .
33	C2DF: High Rate DDOS filtering method in Cloud Computing.	2014	International Journal of Computer Network and Information Security , 2014, Vol. 6, No. 9.
34	Disease Diagnosis using Soft Computing Model: A Digest.	2014	International Journal of Computer Applications, Vol.102, No., pp. 43-47.
35	Data Dependencies and Normalization of Intuitionistic Fuzzy Databases.	2014	International Journal of Advanced Computing, Networking and Informatics, Vol. 1, pp. 309-318.
36	Reduction of Computation Time in Pattern Matching for Speech Recognition.	2014	International Journal of Computer Applications, Vol.90, No. 18, pp.35-37.
37	Establishing safe cloud: Ensuring data security and performance evaluation.	2014	International Journal of Electronics and Information Engineering, 2014, Vol.1, No.2, pp. 88-99.
38	An Analysis of Fuzzy Clustering Methods.	2014	International Journal of Computer Applications 94 .
39	Analysis of Combined Use of NN and MFCC for Speech Recognition.	2014	International Journal of Computer, Electrical, Automation and control.
40	A multi-intelligent agent architecture for knowledge extraction: novel approaches for automatic production rules extraction.	2014	International Journal of Multimedia and Ubiquitous Engineering 9 (2), 95-114.
41	A spectrum of fuzzy clustering algorithm and its applications.	2013	Machine Intelligence and Research Advancement (ICMIRA), 2013.
42	Design and implementation of intelligent agent and diagnosis domain tool for rule-based expert system	2013	Machine Intelligence and Research Advancement (ICMIRA)
43	Ontology based feature driven development life cycle	2013	arXiv preprint arXiv:1307.4174.
44	AIREP: A novel scaled multidimensional quantitative rules generation approach.	2012	International Journal of research in Computer application and Management, Volume 13, Issue 1.
45	SORA: An application of scaled k-means to remove outliers on multidimensional dataset.	2012	International Journal of Computer Application and Engineering Technology, Volume 3, Issue 1 , July-2012 .
46	SAS: Implementation of scaled association rules on spatial multidimensional quantitative dataset.	2012	International Journal of Advanced Computer Science and Applications, Volume 3 , Issue 9 .
47	Exposition and Execution of a Scaled Aprori in Multidimensional Dataset.	2012	ARNP Journal of System and Software, Volume 2, No 1.
48	Discovery of Scaled Association Rules from multidimensional quantitative Datasets.	2012	Journal of advances in Information Technology , Volume 3, issue 1.
49	Knowledge-driven Intuitionistic Fuzzy Decision Support for finding out the causes of Obesity	2012	International Journal on Computer Science and Engineering (IJCSSE) , Vol. 4 No. 03
50	To Developed Tool, an Intelligent Agent for Automatic Knowledge Acquisition in Rule-based Expert System.	2012	International Journal of Computer Applications.
51	Ontology Based Feature Driven Development Life Cycle	2012	International Journal of Computer Science Issues, Vol. 9, Issue 1, No 2
52	Analysis of Credit Card Fraud Detection Techniques: based on Certain Design Criteria.	2012	International Journal of Computer Applications, Vol. 52, No. 3.
53	YAMI: Incremental Mining of Interesting Association Patterns.	2012	International Arab Journal of Information Technology.
54	Load Balancing Algorithms for Peer to Peer and Client Server Distributed Environments	2012	International Journal of Computer Applications, Volume 47, Number 8, page 17 – 21.

55	SpaGRID: A Spatial Grid Framework for High Dimensional Medical Databases.	2012	E. Corchado et al. (Eds.): HAIS 2012, Part I, LNCS 7208, pp. 690–704, 2012. , Springer-Verlag Berlin Heidelberg.
56	To Developed Tool, an Intelligent Agent for Automatic Knowledge Acquisition In Rule-based Expert System.	2012	International Journal of Computer Applications Vol. 42, No. 9, pp. 46-50.
57	Analysis of Credit Card Fraud Detection Techniques: based on Certain Design Criteria.	2012	International Journal of Computer Applications, Vol. 52, No. 3.
58	Load Balancing Algorithms for Peer to Peer and Client Server Distributed Environments.	2012	International Journal of Computer Applications, Vol. 47, No. 8, pp. 17 – 21.
59	SpaGRID: a spatial grid framework for high dimensional medical databases.	2012	Hybrid Artificial Intelligent Systems, 2012, pp. 690-704. Springer Berlin Heidelberg.
60	A study on the Role of Intuitionistic Fuzzy Set in Decision making problems.	2012	International Journal of Computer Applications, Vol. 48, No. 19, pp. 35-41, ISSN:0975-888.
61	Preserving privacy in data Mining using semma Methodology	2012	International Journal on Computer Science and Engineering, Vol. 4, No. 5, ISSN:0975-3397.
62	A comparative Study of Fuzzy and Intuitionistic Fuzzy Techniques in a Knowledge based Decision Support.	2012	International Journal of Computer Applications, Vol. 53, No. 7, pp. 415-425, ISSN: 0975-8887.
63	Implementation of Portion Approach in Distributed Firewall Application for Network Security Framework.	2012	International Journal of Computer Science Issues, Vol. 8, Issue 6, No 2.
64	Framework for Cloud Computing Platform with a Virtualized Network Infrastructure.	2012	International Journal of Computer Applications, Vol. 44, No. 1, pp. 26-28, ISSN: 0975-8887.
65	Preserving Privacy In Data Mining Using Semma Methodology.	2012	International Journal on Computer Science & Engineering, Vol. 4, No. 5, pp. 853-858, ISSN: 0975-3397.
66	Analytical Modeling of Counter Based Broadcast Scheme in Mobile Ad hoc Networks.	2011	International Journal of Computer Science and Security.
67	A New Approach for Clustering Categorical Attributes.	2011	International Journal of Computer Science and Information Security, ISSN: 1947-5500 ,Vol. 9, No. 1, pp 39-43.
68	Performance Analysis of Counter-Based BroadcastScheme for Mobile Ad Hoc Networks	2011	International Journal of Computer and Electrical Engineering 3 (5), 719.
69	Issues, Challenges and Tools Of Clustering Algorithms.	2011	International Journal of Computer Science Issues, ISSN: 1694-0814, Vol. 8, Issue 3, pp 523-528
70	An Efficient Fuzzy Data Clustering Algorithm for Relational Databases.	2011	Google Scholar Impact Factor:0.242. International Journal of Engineering, Science and Technology, Vol.3, No. 12, ISSN : 0975-5462, pp 8281- 8288.
71	Design and implementation of Fuzzy Expert system For Back pain Diagnosis	2011	International journal of innovative Technology and Creative Engineering, 2045-8711.
72	Comparison and Evaluation of scaled data mining Algorithms.	2011	International Journal of Computer & Organization Trends, Volume1, Issue3.
73	DataAprori algorithm : Implementation of scalable Data Mining by using Aprori algorithm.	2011	International Journal of Innovative Technology & Creative Engineering , Volume 1 , No 11.
74	Design of Web Ontology Language: A survey.	2011	Journal of Emerging Technology in Web Intelligence, Academy Publisher.
75	Effect of different defuzzication methods in a Fuzzy based load balancing application.	2011	International Journal of Computer Science Issues, Vol. 8, Issue 5, No. 1.
76	Ontology Based Application Model for Feature Driven Development.	2011	IICAI, 1125-1137.
77	An Efficient Hybrid HoneyPot Framework for Improving Network Security.	2011	International Journal of Computer Science and Information Security.

78	Mobility Based Proactive And Reactive Routing Algorithm In Mobile Ad Hoc Networks”(Manet).	2011	International Journal of Computer Science and Information Technologies 2 (4).
79	Spatial Clustering Algorithm using R-tree.	2011	Journal of Computing 3 (2), 85-90.
80	Applying Intuitionistic fuzzy Approach to Reduce Search Domain in an Accidental Case	2010	International Journal of Advance Computer Science and Application, Vol.1 No.4, pp: 69to72
81	Normalization of fuzzy and intuitionistic fuzzy relational database into third normal form.	2010	International journal of Math. Sci. & Engg. Appls, vol. 4 No.1, ISSN 0973-9424.
82	Analysing the agglomerative hierarchical Clustering Algorithm for Categorical Attributes International Journal of Innovation.	2010	International Journal of Innovation, Management and Technology, ISSN : 2010-0248 ,Vol. 1,No 2., pp 186-190.
83	Applying Intuitionistic Fuzzy Approach to Reduce Search Domain in an Accidental Case	2010	International Journal of Advanced Computer Science and applications.
84	Implementation of a new Fuzzy Based Load Balancing Algorithm for Hypercubes.	2010	International Journal of Computer Science and Information Security, Vol. 8, NO. 9.
85	A performance analysis of chasing intruders by implementing mobile agents.	2010	International. Journal. Of Security 4 (4), 80-88
86	An Association Rule Mining Approach for Co-Regulated Signature Genes Identification in Cancer	2009	Journal of Circuits, Systems and Computers, Volume 18, issue 8,pp1409-1423, ISSN: 0218-1266.
87	Normalization of Intuitionistic fuzzy relational database into Second normal form.	2009	International journal of Math. Sci. & Engg. Appls., vol. 3 No.III, ISSN 0973-9424.
88	Exposition and Execution of a Scaled Apriori in Multidimensional Dataset.	2009	ARNP Journal of Systems and Software.
89	A KDD System for the Discovery of Quantified Exception Rules.	2009	Advances in Computing, Control, & Telecommunication Technologies, 2009.
90	Discovery of Quantified Hierarchical Production Rules from large set of Discovered Rules.	2009	World Academy of Science, Engineering and Technology.
91	An association rule mining Approach for co-regulated Signature genes identification in cancer.	2009	Journal of Circuits, Systems, and Computers 18 (08), 1409-1423.
92	Recent Developments in Computing and Its Applications.	2009	IK Publishing.
93	<b>Intelligent E-Commerce with Web Data Mining A smarter Approach to Intelligent Business.</b>	2006	The Journal of Computer Science and Information Technology, ISSN09734872, Vol. 4, No. 1, p.p. 38-41.
94	<b>Academic Industry Partnership- Keeping Pace with IT Revolution.</b>	1998	University News, Journal of Higher Education Vol. 36 No. 21, May 25.

<b>PAPERS PUBLISHED- Conference /Proceedings</b>			
95	A Review on Dynamic Load Balancing Algorithms in Cloud Environment	2020	Proceedings of 2nd International Conference on ICT for Digital, Smart and Sustainable Development ,ICISSD'2020 from 27th -28th March 2020 at Jamia Hamdard, New Delhi
96	Implementation of Viola-Jones for Detection of Facial Factors of Human for Prospect of Image Recognition	2020	Proceedings of 2nd International Conference on ICT for Digital, Smart and Sustainable Development ,ICISSD'2020 from 27th -28th March 2020 at Jamia Hamdard, New Delhi
97	Future Hydroponic Systems using IOT for sustainable agriculture	2020	Proceedings of 2nd International Conference on ICT for Digital, Smart and Sustainable Development ,ICISSD'2020 from 27th -28th March 2020 at Jamia Hamdard, New Delhi

98	Futuristic Robotic Artificial Intelligence Systems for Special Needs Children	2020	ICT for Competitive Strategies, Taylor & Francis, DOI: 10.1201/9781003052098-31
99	A Review on Challenges and Benefits of Fog Computing	2020	Online International Conference on Emerging Trends in Information Technology and Data Science (INCETITDS-20) ,July 2020
100	Scalable Security Based on Data Classification Using Generalized RSA in Cloud Storage	2019	<i>Proceedings of ICETIT</i>
101	Implementation of ICT Technology for Sustainable Development Goals.	2019	International Conference on ICT for Digital, Smart and Sustainable Development.
102	Technical Aspects and Challenges of Cloud Computing Environments.	2019	Proceedings of the 1st International Conference on ICT for Digital, Smart, and Sustainable Development
103	Understanding the Information flow in Human Brain.	2018	5th International Conference on “Computing for Sustainable Global Development”.
104	Use of ICT for sustainable transportation.	2018	Conference Series Earth and Environmental Science 150(1).
105	Comparative Study of Traditional Database and Cloud Computing Database.	2017	National Seminar on Cloud Computing and its Applications.
106	A soft computing approach for obesity assessment.	2016	5th International Conference on Reliability, Infocom.
107	A multi-intelligent agent for knowledge discovery in database (miakdd): Cooperative approach with domain expert for rules extraction.	2014	International Conference on Intelligent Computing, 602-614.
108	A Spectrum of Fuzzy Clustering Algorithm and Its Applications.	2013	Proceedings of International Conference on Machine Intelligence and Research Advancement
109	Design and implementation of intelligent agent and diagnosis domain tool for rule based expert system.	2013	International Conference on Machine Intelligence Research and advancement.
110	K-Means clustering in spatial data mining using weka interface.	2012	International Conference on Advances in Communication and Computing Technologies .
111	Schur decomposition and dither modulation: an efficient and robust audio watermarking technique.	2012	Proceedings of the CUBE International Information Technology Conference, pp. 744-748. ACM.
112	A comparative study of the defuzzification methods in an application.	2011	Proceedings of the National Conference on Next Generation Computing and Information Security (NCNGCIS-2011) “Emerging Trends for Future Challenges” to be held on 25 <sup>th</sup> & 26 <sup>th</sup> March, 2011 at IMS Noida.
113	An Ontology Based Approach for Requirement Inconsistency Detection.	2011	Proceedings of the National Conference on Next Generation Computing and Information Security (NCNGCIS-2011) “Emerging Trends for Future Challenges” to be held on 25 <sup>th</sup> & 26 <sup>th</sup> March, 2011 at IMS Noida.
114	Ontology Based Application Feature Driven Development.	2011	Proceedings of Indian International Conference on Artificial Intelligence” 2011, ISBN 973-93-80026-78-7.
115	Aspect Weaving in MDA for Ontology Modeling.	2010	Proceedings of International Conference on Knowledge Discovery “10 ISBN 978-1-4244-6079-3
116	A hierarchical clustering algorithm for categorical attributes.	2010	In Proceedings of International Conference of Knowledge Discovery, ISSN: 978-0-7695-3982-9, Vol. 2, pp 365-369.
117	A Secure Confidence Routing Mechanism by Using Network based Intrusion Detection Systems over Router Monitoring Controls.	2010	Proceedings of International conference on Wireless Information Networks & Business Information System (WINBIS’10), ISSN No. 2091-0266 on 28 February 2010.
118	Emerging Trends and Role of Women in IT Profession in India	2010	UGC Sponsored National Seminar on Role of Women in Information Technology: Today and Tomorrow.

119	K-Means clustering using WEKA.	2010	Proceedings of the 4 <sup>th</sup> National Conference; INDIACom-2010, Computing for National Development, ISBN 978-81-904526-9-4, 2010, February 25-26, Bhartiya Vidyapeeth's Institute of Computer Applications and Management, New Delhi.
120	Data clustering method for discovering clusters in spatial cancer databases.	2010	International Journal of Computer Applications 10 (6), 9-14.
121	Image Segmentation scalable Fuzzy K-Means approach for texture.	2010	Proceedings of International IT Summit, Einblick.
122	Fuzzy K-means approach for texture clarification.	2010	Proceedings of International IT Summit, Confluence-2010.
123	A Dynamic Load Balancing Algorithm for Web Applications.	2010	International Conference on Computing: Updates and Trends (CUT-2010) held on February 6 <sup>th</sup> 2010.
124	Load Balancing Queue Based Algorithm for Distributed Systems.	2010	National Conference on Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries MATEIT-2010 held on January 30-31, 2010 at Deen Dayal Upadhyaya College University of Delhi, India. Pg No. PS 8.1-PS 8.5
125	A hierarchical clustering algorithm for categorical attributes.	2010	2nd International Conference on Computer Engineering and Applications.
126	Aspect Weaving in MDA for Ontology Modelling	2010	International Conference on Computer Engineering and Applications ICCEA.
127	Efficient Software Cost Estimation using Neuro-Fuzzy Technique.	2010	Published in Proceeding of ISCET
128	An efficient KCOE mediod algorithm for large databases.	2009	Proceedings of National Conference on Recent Developments in Computing and its application.
129	Discovery of Fuzzy Censored Production Rules from Large Set of Discovered Fuzzy If Then Rules.	2009	Proceedings of World Academy of Science, Engineering and Technology [PWASET] [ISSN: 2070-3740] Volume 37 January 2009, pp 853-856.
130	Discovery of Quantified Hierarchical Production Rules from Large Set of Discovered Rules.	2009	Proceedings of World Academy of Science, Engineering and Technology [PWASET] [ISSN: 2070-3740] Volume 37 January 2009, pp 857-863.
131	D-S-Uncertainty Miner: A Data mining System Handling Uncertainty and Quality.	2009	Proceedings of IEEE International Advance Computing Conference (06 – 07 March 2009) ISBN: 978-981-08-2465-5, pp 1669-1672.
132	Network Load Balancing Technical Overview.	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 73-79.
133	Analysis of Counter Based Scheme Models Using Mobile ad hoc Networks.	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.
134	An Artificial Immune System for Spam Detection.	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.
135	An Application of Intuitionistic Fuzzy Relation in System Troubleshooting.	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.
136	Fuzzy Ontology Representation in Rdf for Semantic Information Retrieval.	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.
137	Efficient Software Cost Estimation Using Neuro-Fuzzy Technique	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.

138	An Efficient KCOE Mediod Algorithm for Large Databases.	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.
139	Fuzzy Sets in Information Retrieval and Data Mining.	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.
140	New Variant Cryptosystems Based on $J_k$ -RSA Cryptosystems	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.
141	Fuzzy Ontology Representation in RDF for semantic information retrieval.	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.
142	Discovery of Quantified Hierarchical Censored Production Rules (QHCPR) from Large Data Set.	2009	Information Processing, 2009. APCIP 2009. Asia-Pacific Conference on 1, 336-342
143	Fuzzy sets in information retrieval and data mining	2009	Proceedings of National Conference on Recent Developments in Computing and Its Applications (August 12-13, 2009) ISBN 978-93-80026-78-7, pp 219-224.
144	Motifminer: A table driven greedy algorithm for dna motif mining.	2009	International Conference on Intelligent Computing, 397-406.
145	Incremental mining of shocking association patterns.	2009	Proceedings of World Academy of Science, Engineering and Technology 37.
146	Yield and economic return of tomato as influenced by irrigation schedules and lateral spacing.	2009	Proceedings of the 10th International Agricultural Engineering Conference.
147	Discovery of fuzzy censored production rules from large set of discovered fuzzy if then rules	2009	Proceedings of World Academy of Science, Engineering and Technology.
148	Selective cascading buckets model: A model for optimizing controlling and maintaining variable names in large scale software Engineering and Re engineering projects.	2008	Proceedings of International conference: systemic, cybernetics and Informatics (ICSCI-2008) January 2-5, 2008.
149	Optimum Detection in Block Data Transmission Systems Using Genetic Algorithm.	2008	Proceedings of International Conference on Computer Networks and Security ICCNS 08, at Vishwakarma Institute of Technology, Pune, September 27-28, 2008, pp.-228-233.
150	Mining Gene Expression Databases.	2008	Proceedings of International Conference on Advanced Computing and Communication Technologies for High Performance Applications, Volume-1, Kerala, India on 24-26 September 2008, pp 96-99.
151	A Closed Frequent Itemset Mining Algorithm for Gene Expression Databases.	2008	Proceedings of International Conference on Bioinformatics, Computational Biology, Genomics and Chemoinformatics, Orlando, Florida, USA, July 7-10, 2008, pp.-30-36.
152	Identification of Co-regulated Signature Genes in Pancreas Cancer-A Data Mining Approach.	2008	International Conference on Intelligent Computing, 138-145.
153	Marketable yield, irrigation production efficiency and economic return of onion under variable irrigation and lateral spacing.	2007	Proceedings of the International Agricultural Engineering Conference .
154	Comparison of drip, microsprinkler and surface irrigation methods for carrot under variable water supply.	2007	Proceedings of the International Agricultural Engineering Conference .

155	Development of subjective measures of interestingness: From unexpectedness to shocking.	2007	Proceedings of World Academy of Science, Engineering and Technology 26, 368-370.
156	Object Oriented Implementation of Intuitionistic Fuzzy Database.	2006	Proceedings of IEEE, London 04 – 05 September 2006.
157	Organizing Web-based Information Services in Academic Library.	2006	Indian Library Association, 26 <sup>th</sup> –29 <sup>th</sup> December 2006, Srinagar, Uttarakhand.
158	Mathematical formulation for managing traffic congestion for a sector of a route using Fuzzy Logic.	2004	WBEAS International Conference on wave let Analysis and MULTI Rate system (WAMUS'04) Athens, Greece December 29-31, 2004.
159	Normalization of Intuitionistic Fuzzy Relational Databases.	2003	Proceedings of the Seventh International Conference on IFS, Sofia(Bulgaria), 23-24, NIFS Vol. 19 ,pp:77-82 .
160	On Intuitionistic Fuzzy Databases.	2002	Proceedings of the 6 <sup>th</sup> Joint Conference on Information Sciences, North Carolina (USA) 92 –96.

## 27. Detail of Patents

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/ Country	Status
1	System & Method Thereof for Secure Digital Health Network Based on Distributed Ledger Technology	Dr Sherin Jazar Dr Mohd Abdul Ahad Prof M Afshar Alam	Patent Application Number: 201911020422	Published Patent on 31/05/2019	India	Published

## 28. Books/Reports/Chapters/General articles etc.

S.No.	Title	Year of Publication	Publisher
<b>BOOKS</b>			
1	Beginning Machine Learning	2020	Springer Science and Business Media
2	Green Computing approach towards Sustainable Development	2019	IK International Publishing House.
3	Micro-Firewalls for Dynamic Network Security Framework: A Secure Hybrid Architecture	2012	LAP LAMBERT Academic <i>Publishing</i>
4	Application Software Re-Engineering	2010	Pearson
5	Advanced Signal Analysis and its Applications to Mathematical Physics	2009	UBS <i>Publishers</i>
6	Recent Developments in Computing and its Applications	2009	IK International Publishing House.
7	Business Data Processing	2005	Devra books
8	Introduction to C++	2005	Devra books
9	Introduction to Information Technology	2004	Devra books

10	Fundamental of Computer Science	2004	Devra books
11	From Black Board to Web	2004	Kanishka Publishers
<b>BOOK CHAPTERS</b>			
1	Iris Based Secured Newfangled System Procuring Miniaturized Prorogation	2020	Data Science and Analytics, DOI: 10.1007/978-981-15-5830-6_5
2	A neoteric smart and sustainable farming environment incorporating blockchain - based artificial intelligence approach	2020	Wiley Online Library, <a href="https://doi.org/10.1002/9781119621201.ch11">https://doi.org/10.1002/9781119621201.ch11</a>
3	Blockchain Implementation Using Smart Grid-Based Smart City	2020	Handbook of Research on Blockchain Technology, Academic Press, Pages 133-169, <a href="https://doi.org/10.1016/B978-0-12-819816-2.00006-X">https://doi.org/10.1016/B978-0-12-819816-2.00006-X</a>
4	Psychological Impact and Assessment of Youth for the use of Social Network: Social Network impact on Youth	2020	Handbook "Optimizing Social and Organizational Dynamics in the Digital Era By IGI Global . DOI: 10.4018/978-1-5225-8933-4.ch017
5	Molecular Dynamics Simulations: Concept, Methods, and Applications	2020	Springer
6	Comparative Analysis of MCT Load Balancing Approach in Cloud Computing Environment	2020	Evolutionary Computing and Mobile Sustainable Networks, DOI: 10.1007/978-981-15-5258-8_45
7	Short Term Forecasting of Agriculture Commodity Price by Using ARIMA: Based on Indian Market	2019	Advances in Computing and Data Sciences, DOI: 10.1007/978-981-13-9939-8_40
8	Effective Predictive Analytics and Modeling Based on Historical Data	2019	Advances in Computing and Data Sciences. Communications in Computer and Information Science, vol 1046. Springer Nature.
9	Multi-Aspect DDOS Detection System for Securing Cloud Network: Concepts, Methodologies, Tools, and Applications	2019	Cloud Security handbook.
10	Psychological Impact and Assessment of Youth for the use of Social Network: Social Network impact on Youth	2018	Handbook "Optimizing Social and Organizational Dynamics in the Digital Era By IGI Global .
11	High-dimensional multimedia classification using deep CNN and extended residual units.	2017	Multimedia Tools and Applications
12	Data Mining for Secure Online Payment Transaction.	2016	Handbook of Research on Advanced Data Mining Techniques and Applications
13	Multi-aspect ddos detection system for securing cloud network.	2016	Handbook of Research on End-to-End Cloud Computing Architecture Design
14	An Optimal Categorization of Feature Selection Methods for Knowledge Discovery	2012	Data Mining: Concepts, Methodologies, Tools, and Applications, Volumes 4 by IGI Global.
<b>Articles in popular magazines or newspapers</b>			
1	Promotion of E-learning through ICT - Role of Indian Government and Higher Educational Institutions.	October 26-2, 2011	University News, Association of Indian Universities, New Delhi



2	Study of Bioinformatics in India.	June, 2011.	University News, Association of Indian Universities, New Delhi.
3	Academic Industry Linkage	May,1995	University News, Association of Indian Universities, New Delhi

**29. List of Projects implemented:**

S.No	Title	Cost in Lakh	Duration	Role (PI/Co-PI)	Agency
1	Establishing Function of Omission Protein in Proline Bio Synthesis in plants through Data Mining and Bio Informatics tools.	11 lacs	5years	PI	UGC
2	Bio Informatics project.	10.5lacs	5years	PI	DBT, GOI
3	ICT in SDG	5.5lacs	1 year	PI	SERB

**30. Other relevant Information**

I am currently working as a Vice – Chancellor, Professor and holding the charge of Dean of the Department of Computer Science and Engineering, School of Engineering Sciences and Technology, Jamia Hamdard, New Delhi. I have also served as the Dean Student Welfare and Foreign Student Advisor of Jamia Hamdard University and has worked other positions in various universities and Govt bodies UGC, AICTE, MHRD, and DST. My area of expertise is Software Engineering, Soft Computing, Communication Engineering, Green Computing, Sustainable Development on ICT. I have more than 25 years of experience in teaching and research. I am the fellow member of IETE and Computer Society of India (CSI). In my 25 years of experience in teaching and research I was invited to many countries across the globe including UAE, Nepal, Syria, Yemen, Iran, KSA, Singapore, Malaysia, Republic of China and Srilanka many more for delivering special lectures, Plenary Talks and as Keynote speakers in Conferences. I have authored 9 books and have more than 150 research papers in reputed journals. I have guided 30 PhD research students and more than 200 post graduate research projects. I have also drafted the curriculum and Bye-Laws for BTech, Mtech, MCA, BCA and MBA (Health Informatics) courses. I am a member of many government bodies including University Grants Commission (UGC), All India Council of Technical Education (AICTE), National Assessment and Accreditation Council (NAAC), Department of Science & Technology (DST). I have also worked as a visiting professor of Computer Science in Hadhramout University of Science and Technology, Yemen . I am also the editor-in-chief, Member of editorial board and reviewer for many reputed national and international journals and conferences. I was also appointed as the examiner of many national level examinations like UGC NET. I was also the member of several selection committees for the appointment of lecturers in institutes and universities across India. I was also appointed as an external examiner for theory and practical examinations at different universities across India like Jamia Milia Islamia, Indraprastha University, Aligarh Muslim University, Delhi University, Calicut University and Manipal University to name a few.