

## Faculty Profile



Name : Dr. Suman Mann  
Designation : Associate Professor  
Qualifications : Ph. D  
Phone : 09910755822  
Email : sumanmann@msit.in  
Area of Interest/Specialization: Data warehousing, Artificial Intelligence and Machine Learning  
Experience : 18+years

### Publications in Journals:

1. Sakshi Hooda, Suman Mann, “Review on Predicting disease severity-Learning algorithms as classifiers for data warehouse Environments” Information Technology in Industry 2021, pp-1079-1084
2. P. Manojkumar, M. Suresh, Alim Al Ayub Ahmed, Hitesh Panchal, Christopher Asir Rajan, A. Dheepanchakkravarthy, A. Geetha, B. Gunapriya, Suman Mann & Kishor Kumar Sadasivuni (2021) A novel home automation distributed server management system using Internet of Things, International Journal of Ambient Energy, DOI: [10.1080/01430750.2021.1953590](https://doi.org/10.1080/01430750.2021.1953590)
3. Suman Mann, Ajay Phogat. Dynamic construction of lattice of cuboids in data warehouse. Journal of Statistics and Management Systems. Vol23,971-982.2020
4. Sakshi Hooda, Suman Mann, Sepsis-Diagnosed Patients’ In-Hospital Mortality Prediction Using Machine Learning: The Use of Local Big Data-Driven Technique in the Emergency Department. International journal of grid and distributed computing, Vol13, 8045-8050.2020
5. Sakshi Hooda, Suman Mann. Examining the Effectiveness of Machine Learning Algorithms as Classifiers for Predicting Disease Severity in Data Warehouse Environments. Revista Argentina de Clínica Psicológica 233 2020, Vol. XXIX, No4, 233-251 DOI: [10.24205/03276716.2020.824](https://doi.org/10.24205/03276716.2020.824)
6. Sakshi Hooda, Suman Mann, Imbalanced Data Learning With a Novel Ensemble Technique: Extrapolation-SMOTE SVM Bagging. International journal of grid and distributed computing. pp 1202-1207.2020
7. Sakshi Hooda, Suman Mann. A focus on the ICU's Mortality prediction using a CNN-LSTM model. International Journal of Psychosocial Rehabilitation. Vol 24, Issue6, 8045-8050.2020.

8. Sakshi Hooda, Suman Mann, Sepsis-Diagnosed Patients' In-Hospital Mortality Prediction Using Machine Learning: The Use of Local Big Data-Driven Technique In The Emergency Department. International journal of grid and distributed computing, Vol13, 8045-8050.2020(ESCI)IF-.14
9. Suman Mann, Tanya Jain, Aakash Vyas. The Blockchain Revolution: Paradigm Shifts in Traditional Voting Practices. International Journal of Computer Applications (0975 – 8887) Volume 176 – No. 37, July 2020
10. Sakshi Hooda, Suman Mann. Distributed Synthetic Minority Oversampling Technique, International Journal of Computational Intelligence Systems, Volume 12, Issue 2, 2019
11. Suman Mann, Bhuvnesh Mehra , Anshul Mangla, Shubham Runwal, Prateek Singhal Estimation of age groups using facial recognition features. International Journal Of Engineering And Computer Science ISSN:2319-7242 Volume 7 Issue 5 May 2018, Page No. 23945-23951
12. Vasu Negi, Suman Mann, Vivek Chauhan. Devanagari Character Recognition Using Artificial Neural Network. International Journal of Engineering and Technology (IJET)DOI:10.21817/ijet/2017/v9i3/1709030246 Vol 9 No 3 Jun-Jul 2017(Scopus) IF-.11 12.6
13. Suman Mann. Web Page Metrics: An Empirical Analysis to Improve the Quality of Web Page. International Journal of Innovative Technology and Exploring Engineering.Vol5,issue10, pp9-14.2016
14. Anjana Gosain, Suman Mann. Empirical validation of metrics for object oriented multidimensional model for data warehouse. International journal of system assurance engineering and management. 262-275(2014). <https://doi.org/10.1007/s13198-013-0155-8>
15. Akshay Chopra, Bhavya Chaudhary, Suman Mann. Analysis of Security Issues in VoIP. International Journal of Computer Applications (0975 – 8887) Volume 103 – No.8, October 2014
16. Anjana Gosain, Suman Mann. Space and Time Analysis on the Lattice of Cuboid for Data Warehouse. International Journal of Computer Applications (0975 – 8887) Volume 77– No.3, September 2013
17. Gosain, A., Mann, S. Object Oriented Multidimensional Model for a Data Warehouse with Operators. International Journal of Database Theory and Application Vol. 3, No. 4, December,2010
18. Manpreet Singh, Parvinder Singh, Suman. Conceptual Multidimensional Model. International Journal of Computer, Electrical, Automation, Control and Information Engineering Vol:1, No:12, 2007, pp 3828-3833

#### Papers in Conferences

1. Suman Mann, Meenu Siwach. Data Model Quality Metrics of Data Warehouse: A Survey International Conference on Innovative Computing & Communication (ICICC) 2020
2. Suman Mann, Yukti Arora, Shivani Anand. Smart Hospitals With the Use of 'Internet of Things' and Artificial Intelligence. International Conference on Innovative Computing & Communication (ICICC) 2020
3. Suman Mann, Ajay Phogat, A Survey on Quality Attributes for Data Warehouse Conceptual model 5th International Conference on “Computing for Sustainable Global Development” BVICAM-2018,pp 4994-4997.

4. Suman Mann, Sakshi Hooda, 'Data quality issues in phases of data warehousing' 4th International conference on computing for sustainable global development BVICAM-2017, pp 444-448.
5. Suman Mann, Bhumika, Nikita Mallik title 'Validation of data warehouse multidimensional model' in national conference on Innovations in IT, Management & Education –Digital india initiative (IIMEDII-15), march 21, MSI, Delhi.
6. Anjana Gosain, Sunil Kumar Khatri, Suman Mann title 'Multidimensional modelling for data warehouse using object oriented approach' in International conference on Reliability, infocom technologies and optimization in association with Computer Society of India (CSI), IEEE, October 8-10,2014, Amity University, Noida.
7. Suman Mann, Bharti, Parminder Singh title 'Empirical validation of multidimensional model for data warehouse' in International conference on Reliability, infocom technologies and optimization in association with Computer Society of India(CSI), IEEE, October 8-10,2014, Amity University, Noida  
Suman Mann, Anjana Gosain, "Space and time analysis on the lattice of cuboid for data warehouse" International conference on optimization modelling and applications, University of Delhi, India Nov29-Dec1, 2012
8. Anjana Gosain, Suman Mann title 'An object oriented multidimensional model for data warehouse' in International conference on software and computing technology (ICSCT 2011), Singapore, Dec 9-10.
9. Anjana Gosain, Suman Mann title 'Survey of Object oriented models for a data warehouse' International conference on Business and Information Technology: Contemporary Research and Development, IMT, Gaziabad, Feb 25-26 2010, pp140-150.
10. Sunanda Chowdhary, Vipin Sharma, A.B. Patki, Suman Mann title 'Fuzzy logic system for querying a database' in national conference on Computing for nation development (Indiacom-2010), BVP,delhi, feb25-26, pp 268-271.
11. Koyal Dutta Gupta, Suman Mann title 'Classification of Medical images using modified K-means Technique' in International conference on wireless networks and embedded system(Wecon-2008),18<sup>th</sup>-19<sup>th</sup> oct, 2008, pp 491-493.
12. Suman Mann, Koyal Dutta Gupta title ' A comparison of two neural networks architectures for automatic text classification' in national conference on emerging trends in Information technology(NCEIT-2008), Baddi, sept 5-6, 2008.
13. Suman, Manpreet Singh, Basant Raj Singh title 'Data mining: Extraction the unextracted' in International conference on Information Technology, 19-21 march, 2007, Haldia Institute of Technology, Calcutta
14. Suman Mann, Sanjay Kumar, Bharti Nagpal title 'data mining and business intelligence in national conference on Computing for nation development (Indiacom-2007), BVP, Delhi feb23-24,pp 537-544.
15. Suman Mann, Preeti Aneja title 'Object data mining query language' in national conference on trends in computing, 18-19<sup>th</sup> may 2007 at SVIET Banur, Patiala .
16. Suman, Manpreet Singh title 'Data mining technique : Classification by online analytical processing' in national conference on Information and emerging technologies, sep7-8, 2007 at IET Bhaddal

17. Manpreet Singh, Basant Raj Singh, Suman Mann title 'Neural network and fuzzy logic applications in electronics' in national conference on recent advances in electronics and communication technology, GNDEC Ludhiana 9-10th nov, 2006, pp178-180
18. Manpreet Singh, Suman Mann, Basant Raj Singh title ' Genetic algorithm for electronics design' in national conference on recent advances in electronics and communication technology, 9-10th nov, 2006, pp158-161

#### **Chapters in Books**

1. Prashant R., Suman M., Eashwaran R. (2021) Efficient Data Cube Materialization. In: Hura G., Singh A., Siang Hoe L. (eds) Advances in Communication and Computational Technology. Lecture Notes in Electrical Engineering, vol 668. Springer, Singapore. [https://doi.org/10.1007/978-981-15-5341-7\\_16](https://doi.org/10.1007/978-981-15-5341-7_16)
2. Batra A., Sethi G.S., Mann S. (2019) Personalized Automation of Electrical and Electronic Devices Using Sensors and Artificial Intelligence—"The Intelligizer System". In: Verma N., Ghosh A. (eds) Computational Intelligence: Theories, Applications and Future Directions - Volume I. Advances in Intelligent Systems and Computing, vol 798. Springer, Singapore. [https://doi.org/10.1007/978-981-13-1132-1\\_41](https://doi.org/10.1007/978-981-13-1132-1_41)
3. Dahiya S., Gosain A., Mann S. (2021) Experimental Analysis of Fuzzy Clustering Algorithms. In: Satapathy S., Zhang YD., Bhateja V., Majhi R. (eds) Intelligent Data Engineering and Analytics. Advances in Intelligent Systems and Computing, vol 1177. Springer, Singapore. [https://doi.org/10.1007/978-981-15-5679-1\\_29](https://doi.org/10.1007/978-981-15-5679-1_29)

#### **Lecturer (s) Delivered as a Resource Person**

1. Dr. Suman Mann, Associate Professor, IT Department invited as keynote speaker in the 9th International conference on Reliability, Infocom Technologies and Optimization (ICRITO-2021) on the topic "Recent trends in Artificial Intelligence and Deep learning applications" in Amity University, Noida. on 3-10-2021.
2. Invited for guest lecture on the topic " Advancing pedagogical and digital skills in literature, language and linguistic " in BSM public school Kerala on 24- 9-2021
3. Invited as a Chief speaker in the Seminar "Precautions to be observed on re opening of school" at B.S.M public School on 17-2-2021.
4. Given a talk on the topic "Multidimensional model through object oriented approach" in national seminar at Dronacharya college of Engineering held on 17 July2009.

#### **. WORKSHOPS/SEMINARS/FDP ATTENDED**

1. Presented a paper on Reliability Engineering in National Level Seminar organized by NC College of Engg. Israna from March 30-31, 2007 at Panipat, India.
2. Faculty Development Program on Enabling the Guru organized by L&T Infotech, held on 30<sup>th</sup> and 31<sup>st</sup> Jan 2008 at Alwar, India.
3. Attended Seminar on Emerging Trends in Technical Education on 8<sup>th</sup> may 2010, at MSIT, Delhi, India.
4. Workshop on Data Mining-Research issues, Recent Trends & PASW Modeler 12.0 based implementation from 4<sup>th</sup> to 5<sup>th</sup> March 2011 at IGIT, Delhi, India.

5. Workshop on Research Methods and Data Analysis using SPSS on 9<sup>th</sup>-10<sup>th</sup> Nov2012 at MSIT, Delhi, India.
6. Faculty Development Program on Network Simulator in Banarsidas Chandiwala Institute of Information Technology on 18<sup>th</sup> August2012.
7. Workshop on Cloud Computing and its Components from 30<sup>th</sup>-31<sup>st</sup> October2013 at MSIT, Delhi, India.
8. Workshop on Implementation of Big Data &Hadoop from 31<sup>st</sup> Oct-1<sup>st</sup> Nov14 at MSIT, Delhi, India.
9. FDP on “MATLAB and SCILAB through ICT” from NITTTR MHRD Chandigarh organized by M.S.I.T September 18 to 22 September 2017.
10. Workshop on “Wireless Network” NITTTR MHRD Chandigarh organized by M.S.I.T from May 22-May 26, 2017.
11. Seminar on “Advances in speech technology a way towards Intelligent Human Computer Interaction” organized by M.S.I.T from 27th -28th November,2017.
12. FDP on “Modeling and Simulation using Matlab through ICT” from NITTTR MHRD Chandigarh organized by M.S.I.T May 21st to 25th May 2018.
13. FDP on “Classroom Communication through ICT” from NITTTR MHRD Chandigarh organized by M.S.I.T May 28th to 1st June 2018.
14. FDP on “data science using R” from NITTTR MHRD Chandigarh organized by M.S.I.T from 26-11-2018 to 30-11-2018.
15. FDP on “Open source technologies through ICT” from NITTTR MHRD Chandigarh organized by M.S.I.T Dec3 to 7<sup>th</sup> Dec 2018.
16. FDP on “machine learning using Python” organized by M.S.I.T from 2-3-2020 to 6-3-2020.
17. FDP on “artificial Intelligence” AICTE training (ATAL) conducted by FICCI from 15-6-2020 to 19-6-2020.
18. FDP on Recent trends and research perspective on energy and power system conducted by PSN college of engineering and Technologies, Chennai from 31.5.2021 to 4.6.2021.
19. International webinar on “Exploring Realtime Technology” organized by Mohamed Sathak AJ college of Engineering on 31-05-2021.
20. Dr. Suman Mann attended the AICTE-ISTE approved Orientation/Refresher Programme on “Use of ICT in Engineering Education” organized by MSIT, Delhi held during 07 April, 2021 to 13 April, 2021.

#### **ADMINISTRATIVE/INSTITUTE SUPPORT WORK**

<b>S. No.</b>	<b>Description</b>	<b>From</b>	<b>To</b>
1	Time Table Coordinator	Sep2012	Till date
2	Network Convener	Sep2019	September 2021
3	HOD	August2016	Dec2018
4	Internet Coordinator	Sep2019	September2021
5	Central Library Coordinator	Sep2019	August2021
6	NBA Coordinator	Feb2015	August2017

7	IQAC coordinator	Dec2016	August2019
8	Time Table Coordinator	July 2016	Dec2018
9	Web-Site In charge	Jan13	2014
10	Member of Library Committee	Jan11	2016
11	Exam Cell	June 2009	July 2010
12	IEEE Branch Counselor	March 2009	Dec 2010
14	Co-convener of Tech -Fest	2009	
15	Software In-charge	2010	
16	Benchmarking Cell Coordinator	2011	2013
17	Discipline In charge	Jan 2005	Jul2005

### **Awards and Recognitions**

1. Overall Project coordinator for the year 2019 nominated by GGSIPU.
2. Appreciation certificate for the excellent result for 3 consecutive years .
3. Awarded excellence in Branch Counseling Award form IEEE Delhi Section for the year 2009.
4. Governing Body member for 2 year (2017-2019)
5. Certificate of recognition for IEEE Xtreme Programming Competition in year 2010.
6. Member of Technical committee of various conferences.
7. Session Chairperson in ICBIRD-2010 International conference at IMT Ghaziabad, India
8. Session Chairperson in ICRITO2015 International conference at Amity University, Noida, India
9. Session Chairperson in ICRITO2016 International conference at Amity University, Noida, India
10. Session Chairperson in ICRITO2018 International conference at Amity University, Noida, India
11. Supervisor of B.Tech student (2018) In their major project, got first position in Project competition held at GGSIPU.
12. Supervisor of B.Tech student in their major project, got 2nd position in Project competition held at GGSIPU

### **Patent/Copyright**

1. Suman Mann, Archana Balyan, Deepshikha, Meena, Sparsh Sood, Shivam Karnwal, R. S. Latha, M.Suresh, M.Dhanapal, N. Rajasekaran, Wi-Fi based home automation system using Google assistance (Patent filed on 24-2-2021 and published on 26.2.2021, Application number 202111007809 A, the patent office journal no. 9/2021 dated 26/02/2021.
2. Areca leaf Shredding machine (Patent filed on 24-2-2021 and published on 5.3.2021, Application number 202141007807 A, the patent office journal no. 10/2021 dated 5/3/2021.
3. Dr. N. Kumareshan, Dr. K.Punitha, Dr. Shaifali Madan Arora, Ms. Poonam Kadian, Ms. Anshul Pareek, Dr. C. Ramakrishnan, Dr. R. Karthick, Dr. R.Banamurugan, Dr. Hitesh Panchal, Dr. Suman Mann, Dr. K.Mahendran, Mr. Ragupathy Shanmuga Sundaram,, A smart healthcare monitoring system using internet of things (Patent filed on 9-7-2021 and published on 16.7.2021, Application number 202141030807)

**Sponsored Project/Consultancy**

1. Grant of Rs 3,64,250 for the Upgradation of existing Network Lab under Modernization and removal of obsolescence Scheme(MODROB) from AICTE.

**Books published**

1. . Information System Management (2018) published by I.K. International Publishing House Pvt. Ltd.

Ph.D Supervised:

Guiding 3 students in their Ph.D under GGSIPU.

Memberships of Professional bodies:

1. ISTE- Permanent Member

**Dr. Suman Mann**