



# Maharaja Surajmal Institute

Affiliated to GGSIP University & NAAC 'A' grade accredited.  
Rated as Category 'A+' by SFRC & 'A' by JAC Govt. of NCT of Delhi  
Recognized U/s 2(f) of UGC Act

## Faculty Profile

1. **Name of Faculty:** Dr. Menal Dahiya
2. **Date of Joining:** 05/01/2009
3. **Present Position:** Associate Professor
4. **Department:** Computer Science
5. **Email ID:** menaldahiya@msijanakpuri.com
6. **Profile:**

Dr. Menal Dahiya is working as an Associate Professor in the Department of Computer Science, Maharaja Surajmal Institute (Affiliated to GGSIPU, Dwarka, Delhi), Janakpuri, New Delhi. She carries 18 years of experience in academics. Apart from academics she also has a stronghold on administrative skills. She has a Ph.D. from Maharshi Dayanand University (MDU), Rohtak, Haryana in Computer Science from the Department of Computer Science and Applications in 2017. She received her M.Phil. in Computer Science from Chaudhary Devi Lal University (CDLU), Sirsa, Haryana, India in 2007. Before she had studied at Guru Jambheshwar University of Science & Technology (GJU), Hisar and Kurukshetra University (KU), Kurukshetra, Haryana, India. Her main research interest areas are Neural Networks, Network Security, Soft Computing, Artificial Intelligence and Wireless Communication. 49 of her research papers have been published in international and National peer-reviewed journals indexed in Scopus, Copernicus, ISI, ESCI and others.

### 7. Educational Qualification:

S No.	Degree (graduation onwards)	College and/ or University	Year
1.	Ph.D. (Computer Science & Application)	DCSA, Maharshi Dayanand University, Rohtak	2017
2.	M.Phil. (Computer Science)	C.D.L.U, Sirsa	2007
3.	MCA	G.J.U, Hisar	2006
4.	MSc(IT)	G.J.U, Hisar	2004
5.	BSc	K.U, Kurukshetra	2002

### 8. Employment Record (Latest First)

S No.	From [Month & Year]	To [Month & Year]	Employer Name	Positions Held	No of Years
1.	August, 2018	Till Date	Maharaja Surajmal Institute, C-4, Janakpuri, Delhi	Associate Professor	7 yrs
2.	January, 2009	July, 2018	Maharaja Surajmal Institute, C-4, Janakpuri, Delhi	Assistant Professor	9 yr 6 Months
3.	August, 2008	December, 2008	MSIP, C-4, Janakpuri, Delhi	Lecturer	5 Months
4.	August, 2007	February, 2008	Tika Ram Girls College, Sonipat, Haryana-131001	Lecturer	7 Months

## 9. Research Papers in National and International Journals

S No.	Title of Paper (Vol and Page No.)	Name of Journal	National/ International	SCI/ SSCI/ SCOPUS/ Care	SCIE/ ESCI/ UGC	Year of Publication	Impact Factor	No. of Citations
1	Comparative Analysis of Machine Learning Algorithm for Breast Cancer Classification: A Comprehensive Evaluation	Parichay: Maharaja Surajmal Institute Journal of Applied Research (IS SN:2581-7515)	National			Dec 2024		
2	Interacting with chat GPT: Impact on students and teaching-learning	Sigma Journal of Engineering and Natural Sciences	International	ESCI		Dec 2024		3
3	Security in UAV ecosystem: An implementation perspective	Sigma Journal of Engineering and Natural Sciences	International	ESCI		Dec 2024		4
4	Future of Digital Commerce with Online Network for Digital Commerce	MR International Journal of Engineering and Technology, Vol. 10, No. 2,	International			Dec 2023		
5	A Study and Survey of Teachers' and Students' perspective on E-learning during COVID-19 in Delhi	MJESTP:MI ER Journal of Educational Studies, Trends and Practices (ISSN:2319-1945), Vol.11, Issue.2	International	Web Science- indexed Journal	ESCI	Nov 2021	-	9
6.	IoT Risk and Security Challenges, (Vol.4, Issue.1)	Parichay: Maharaja Surajmal Institute Journal of Applied Research (IS SN:2581-7515)	National	-		2021		
7.	Severe Acute malnutrition in Children of India	Parichay: Maharaja Surajmal Institute Journal of Applied	National			2020	-	

		Research(IS SN:2581- 7515)					
8.	Sentiment Analysis and Opinion Mining of Facebook Using R” (Vol.8, Issue.1)	International Journal of Scientific Research in Computer Science Applications and Managemen t Studies(ISS N: 2319- 1953)	International	UGC	2019	0.45	
9.	Securing Password for Wireless Devices Using Training Functions of MATLAB, (Vol.118, Issue- 7, p-9-19)	International Journal of Pure and Applied Mathematics (ISSN: 1311-8080)	International	Scopus	2018	7.19	
10.	Quest of Rogue Access Point in Bluetooth Networks using Neural Network, (Vol.8, Issue.3, p.246-248)	Indian Journal of Computer Science and Engineering (ISSN: 2231-3850)	National	UGC	2017	-	
11	A Hopfield Neural Approach for Authenticating Password in WLANs, (Vol.6, Issue.6, p.129- 132)	International Journal of Computer Science and Mobile Computing (ISSN: 2320-088X)	International	UGC		7.05	
12	Need and Advantages of 5G Wireless Communication Systems, (Vol.5, p.48-51)	International Journal of Advance Research in Computer Science & Managemen t Studies (ISSN: 2321-7782)	International	-	2017	-	24
13	Word-Level Language Identification in Bilingual Text and Back- Transliteration, (Vol.6, p. 887- 889)	International Journal of Advanced Research in Computer Engineering & Technology (ISSN:	International	UGC	2017	-	1

		2278-1323)					
14.	5G- Upcoming of Mobile Wireless Communication , (Vol.4, p. 7-9)	International Journal of Electrical, Electronics & Computer Science Engineering (ISSN: 2454-1222)	International	UGC	2017	4.2	5
15.	Fingertip Infotainment-A Way to Secure Information, (Vol.8, p. 1068-1071)	International Journal of Advanced Research in Computer Science (ISSN: 0976-5697)	International	UGC	2017	5.84	
16.	Issues and Countermeasures for Smart Home Security, (Vol.4, p. 124-126)	International Journal of Innovative and Emerging Research in Engineering (ISSN: 2394-5494)	International	-	2017	3.47	10
17.	Bluetooth Remote Home Automation System using Internet of Things, (Vol.5, p. 9559-9562)	International Journal of Innovative Research in Computer and Communication Engineering (ISSN: 2320-9798)	International	-	2017	7.48	
18.	Overview of Security Challenges and Needs in Vehicular Ad-Hoc Networks, (Vol.7, p. 70-72)	International Journal of Advanced Research in Computer Science and Software Engineering (ISSN: 2277-128X)	International	-	2017	-	
19.	Crime Data Investigating using Machine Learning Algorithms, (Vol.13, p. 1301-1305)	International Journal of Computational Intelligence Research (ISSN: 0973-1873)	International	-	2017	-	1
20.	Applications of Soft Computing in Various Areas, (Vol.6,	International Journal of Engineering Sciences	International	UGC	2017	4.11	5

	p. 712-716)	and Research Technology (ISSN: 2277-9655)					
21	A Tool of Conversation: ChatBot, (Vol.5, p. 158-161)	International Journal of Computer Sciences and Engineering (ISSN: 2347-2693)	International	UGC	2017	3.02	275
22.	Security Issues and Solutions in Wi-Fi, (Vol.9, p. 773-777)	International Journal of Electronics Engineering Research (ISSN: 0975-6450)	International	-	2017	-	1
23.	Study on E-commerce and its Impact on Market and Retailers in India, (Vol.10, p. 1495-1500)	Advances in Computational Sciences and Technology (ISSN: 0973-6107)	National	-	2017	-	26
24.	MANET's: Security Attacks and Securing Routing Protocols, (Vol.10, p. 693-697)	Advances in Wireless and Mobile Communications (ISSN: 0973-6972)	National	-	2017	-	2
25.	Challenges of E-commerce in India, (Vol.6, p. 18-21)	International Journal of Computer Science and Mobile Computing (ISSN: 2320-088X)	International	-	2017	1.53	
26.	Routing Algorithms for Mobile Ad-Hoc Network, (Vol.12, p. 335-342)	International Journal of Computational and Applied Mathematics (ISSN: 1819-4966)	International	-	2017	-	1
27.	An Analysis of Life Cycle Models for CBSD, (Vol.9, p. 1044-1048)	International Journal of Engineering and Technology (ISSN: 0975-4024)	International	Scopus	2017	-	
28.	A Relative Study of	Advances in Computation	National	-	2017	-	1

	Heterogeneous Wireless Protocols, (Vol.10, p. 159-164)	al Sciences and Technology (ISSN: 0973-6107)					
29.	Protecting MAC Address Spoofing in IEEE 802.11 Using MATLAB, (Vol.8, p. 306-308)	International Journal of Advanced Research in Computer Science (ISSN: 0976-5697)	International	UGC	2017	-	2
30.	Framework for Wireless Network Security Using Hash Function Based on Feed Forward Artificial Neural Network,(Vol.13, p.321-326)	International Journal of Computational Intelligence Research (ISSN: 0973-1873)	International	-	2017	-	
31.	Detection of Rogue Access Point in WLAN Using Hopfield Neural Network,(Vol.7, p.1060-1070)	International Journal of Electrical and Computer Engineering (ISSN: 2088-8708)	International	Scopus	2017	1.05	9
32.	A Short Range Wireless Network: Bluetooth, (Vol.8, p. 37-41)	International Journal of Advanced Research in Computer Science (ISSN: 0976-5697)	International	UGC	2017	5.84	4
33.	Evolution of Wireless LAN in Wireless Networks, (Vol.9, Issue.3, p. 109-113)	International Journal on Computer Science and Engineering (ISSN: 2229-5631)	International	UGC	2017	-	8
34.	Wi-Fi Standards for Next Generation Communication , (Vol.9, Issue-3, p. 177-182)	International Journal of Engineering Science and Technology (ISSN: 0975-5462)	International	UGC	2017	-	2
35.	Password Predictability Using Neural Networks, (Vol.8, Issue.1, p. 248-250)	International Journal of Advanced Research in Computer Science (ISSN:	International	UGC	2017	5.84	

		0976-5697)					
36.	Applying Intrusion Detection Technique for Intercepting Rogue Access Point in Wireless Communication , (Vol.3, Issue-10, p. 17-20)	International Journal for Research in Emerging Science and Technology (ISSN: 2349-7610)	International	-	2016	4.94	
37.	Implementation of Neural Network Techniques in Wireless Communication for Authentication, (Vol.5, Issue-10, p. 512-515)	International Journal of Research in Computer and Communication Technology (ISSN: 2320-5156)	International	-	2016	2.34	
38.	Password Authentication in Wireless Networking Using Neural Network Techniques, (Vol.4, Issue-9, p. 119-122)	International Journal of Computer Sciences and Engineering (ISSN: 2347-2693)	International	UGC	2016	3.02	2
39.	Performance Evaluation of Feed Forward Neural Network for Wired Equivalent Privacy / Wi-Fi Protected Access Protocols, (Vol.9, Issue-31, p. 1-14)	Indian Journal of Science and Technology (ISSN: 0974-5645)	National	Scopus	2016	-	1
40.	Secured Bluetooth Authentication Using Artificial Neural Networks, (Vol.5, Issue-5, p. 244-248)	International Journal of Research in Computer and Communication Technology (ISSN: 2320-5156)	International	-	2016	2.34	2
41.	User Authentication Mechanism Based on Neural Networks, (Vol.5, Issue-5,	International Journal of Computer Science and Mobile Computing (ISSN:	International	-	2016	1.53	1

	p. 563-566)	2320-088X)					
42.	Back Propagation Neural Network for Wireless Networking, (Vol.4, Issue-4, p. 123-125)	International Journal of Computer Sciences and Engineering (ISSN: 2347-2693)	International	-	2016	3.02	
43.	Enhancing Authentication in Wireless Devices Using Neural Network,(p.1-5)	IOSR Journals of Computer Engineering (ISSN: 2278-8727)	National	-	2016	-	
44.	An Application of Neural Network for Device Authentication in Bluetooth Pairing Method, (Vol. 5, Issue-4, p. 28-34)	International Journal of Computer Science & Information Technology Research Excellence (ISSN: 2250-2734)	International	-	2015	2.89	
45.	Security Issues in Bluetooth Technology- A Review, (Vol.6, Issue-1, p. 100-103)	IITM Journal of Management and IT (ISSN (O): 2349-9826, ISSN (P): 0976-8629)	National	-	2015	-	

#### 10. Research Papers presented / Published as full paper in Conferences/ Seminars:

S No.	Title of Paper	Name of Conferences/ Seminars	National/ International	Name of Host Institution	Year
1.	Chatbot AI- An AI Driven chatbot framework	Sustainable Business Management Innovation and Technology	International	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	20 & 21 February 2025
2	Advancing Breast Cancer Detection: Synergy of Fine Needle Aspiration and Machine Learning Models	Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2024)	International	Department of Electronics and Communication Engineering & Department of Information Technology, Velammal Institute of Technology, Chennai	21 & 22, March 2024.
3	COMPARATIVE ANALYSIS OF VARIOUS AI CHATBOTS	New Frontiers on the Global stage of Multidisciplinary Research ICNMR-2023	International	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	May, 2023
4	DRONE ECOSYSTEM: ARCHITECTURE FOR CONFIGURING	International Conference on Computing, Communications and Cyber Security	International	KEC Ghaziabad	July, 2023



	AND SECURING UAVs				
5	5G: The Stimulant to Digital Uprising in India	IEEE International Conference on Machine Learning, Big Data, Cloud and Parallel Computing	International	Manav Rachna International Institute of Research & Studies	August 2022
6.	HEALTHIT: An Application for Primary Healthcare Services	3Ds (Data Analytics, Digitalization & Disruption) in Business and Society	International	Institute of Technology & Science, I.T.S School of Management, Ghaziabad	April, 2022
7.	Impact of Covid-19 Pandemic on E-Commerce in India	Resurgence of Economies Globally Post Pandemic: Issues and Challenges,	International	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2021
8.	Student's Performance Prediction using Deep Learning and Data Mining Methods	Digital Entrepreneurship	National	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2021
9.	Serverless Computing: Need, Impact and Challenges	Emerging Trends National in Big Data, IoT and Cyber Security	National	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2020
10.	Monitoring and Control System for Home Automation using IOT	Quality Assurance in Higher Education: Practices and Issues	National	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2019
11	SWOT Analysis of Amazon : A Retailer Company	Paradigm Shift from Developing to Developed India through- Digitalization	National	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2017
12.	Enhancing Authentication in Wireless Devices Using Neural Network	Recent Trends in Computer Science and Information Technology (NCRTCSIT-2016)	National	G. H. Rasoni Institute of Information Technology, Nagpur	2016
13.	Elimination of Rogue Access Point in Wireless Network	Recent Trends in Engineering and Material Sciences (ICEMS-2016)	International	Jaipur National University, Jaipur	2016
14.	Wireless Security - A Challenge to Society	Organizational Transformation in Merging Real and Virtual World (OTMRVW-2015)	National	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2015
15.	A Comparative Study of Wireless Protocols: Bluetooth, ZigBee, Wireless HART and Wibree	Innovations in IT, Management & Education – Digital India Initiative (IIMEDI-2015)	National	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2015
16.	An Integrated Requirement	Innovative Trends in Information Processing and	National	Maharaja Surajmal Institute, Janakpuri,	2014

	Analysis Approach for Improving Data Warehouses Quality	Management		New Delhi-110058	
17.	A Neural Network Approach for Wireless Network Security	Advances in Computing Communication Network & Electrical System	National	UIET, M.D.University, Rohtak, Haryana	2014
18	Corporate Social Responsibility: The New Reality of Business	Managing Innovations & Talent in Highly Competitive Global Business Environment	International	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2013
19.	Quality Issues in Data Warehouse	Current Scenario & Emerging Trends in IT	National	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2013
20	Data Mining in Business	Management of Environmental Risks and Uncertainties in the Contemporaneous Business Milieu	International	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2011
21	Changing Headwinds in Strategic Leadership Landscape: Impact and the Road Ahead	Strategies & Innovations for Sustainable Development in Organizations	International	Maharaja Surajmal Institute, Janakpuri, New Delhi-110058	2011

#### 11. Books and Journals Published/Edited:

S No.	Title of Book/Journal	Publisher	National/ International	Volume and Issue no. (in case of journal)	Year of Publication
1	Digital Empowerment in the Information Age	JSR	National	ISBN: 978-93-94336-65-0	2024
2	Beginning with Digital Marketing	JSR	National	ISBN: 978-93-94336-41-4	2023
3	Getting Started with Web Technologies - HTML, CSS, BOOTSTRAP, JAVASCRIPT AND XML	Notion Press	International	ISBN: 9798888333174.	2022

#### 12. Book Chapters in National and International Books

S No.	Title of Chapter (Page No.)	Name of Book	National/ International	Year of Publication
1	Essentials of Data Wrangling	Data Wrangling: Concepts, Applications and Tools	International	2023
2	Application for Smart Cities During Pandemic-Face Mask Detection	Society 5.0: Smart Future Towards Enhancing the Quality of Society	International	2022
3	Machine Learning	Advances in Deep	International	2022

	Applications to Smart Cities: A Comparative Study	Learning Applications for Smart Cities		
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