

Faculty Details Proforma



Title	Dr.	First Name	Sandeep	Last	Kumar	Photograph	
				Name			
Designation		Assistant Profes	sor				
Address	,	Gurgaon, Harya	na				
Date of	Birth						
Phone N	No Office						
Mobile							
Email		sandeep_kumar	@sbs.du.ac.i				
Web-Pa	ge	https://sites.google.com/sbs.du.ac.in/sandeepkumar/					
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Educat	ional Qualif						
Degree		Institution		Year			

B.A. Hons. (Maths)	Rajdhani College (University of Delhi)	2006
M,Sc, Mathematics	IIT Delhi	2008
M.Tech Computer	IIT, Delhi	2010
Applications		
Ph D	IIIT Delhi	2022

Career Profile

Assistant Professor, Shaheed Bhagat Singh College (University of Delhi) - June 2015 Till now

Assistant Professor (Adhoc), University of Delhi – Jan 2012 to June 2015

Software Associate, Strand Life Science, Bangalore – July 2010 to Jan 2012

Areas of Interest / Specialization

Machine Learning, Cryptography

Papers Taught

Cryptography and Network Security, Number Theory, Discrete Mathematics, C Language, C++ Language, Computer Algebra System, Latex and HTML, Python, Numerical Methods, Real Analysis, Group Theory, Ring Theory, Linear Algebra, Differential Equations, Probablity and Statistics, Complex Analysis, Calculus.

Research Guidance PhD scholars Under Supervision Submitted Awarded M.Phil Scholars

Under Supervis	Submitted				Awarded					
M.A. Dissertation										
Under Supervis	ion	Awarded								
Publications Pro Books	ofile									
DOOKS										
Title	ISBN/Publisher/Link			Indexed Scopus etc	Year					
						if any				
Latex and HTM	L	978-81-928184-6-7			-	2016	2016			
		Vardhman Publications								
Graph Theory		978-81-928184-4-3			-	2015	2015			
		Vardhman Publications				2013				
Practical using		978-81-928184-3-6			-					
Mathematica for Calculus-I	r	Vardhman Publications					2014			
Practical using		978-81-928184-2-9				-				
Mathematica for		Vardhman Publications					2014			
Numerical Methods and Analysis - II										
Research Publications										
	Publica									
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Article Name Type		Jour	Journal Name IS		SSN Volu No me	1 Year	URL	DOI		
	(UGC			110	1110					
	Care/									

Will a tropical cyclone make landfall?	Scopus/ Web of science etc) Scopus	Neural Computing and Applications	0941- 0643	35	2022	https://link. springer.co m/article/1 0.1007/s00 521-022- 07996-7	https://doi.org /10.1007/s005 21-022- 07996-7
TanhSoft— dynamic trainable activation functions for faster learning and better performance Publications of	Scopus	IEEE Access	2169- 3536	9	2021	https://ieee xplore.ieee. org/docume nt/9514829	10.1109/ACC ESS.2021.31 05355
Title of Publication	Type of Publicat ion	Publisher	Role in Public ation	ISB N Num ber	Year	URL	Level
Prediction of landfall intensity, location, and time of a tropical cyclone	Confere nce Paper	AAAI Conference on Artificial Intelligence	First Author	-	2021	https://cdn. aaai.org/ojs /17741/177 41-13- 21235-1-2- 20210518.p df	International Conference. Ranked – 33 (in https://scholar .google.com/c itations?view _op=top_ven

							ues)
Predicting	Confere	Artificial	Co-	978-	2021	https://doi.o	International
landfall's	nce	Neural	author	3-		rg/10.1007/	Conference.
location and	Paper	Networks and		030-		978-3-030-	
time of a		Machine		8638		<u>86380-</u>	
tropical		Learning		0-7		<u>7_30</u>	
cyclone using		Conference					
reanalysis data							
Track	Confere	IEEE 11th	First	978-	2021	https://ieee	International
prediction of	nce	Annual	Author	1-		xplore.ieee.	Conference
tropical	Paper	Computing		6654		org/docume	
cyclones using		and		-		nt/9376027	
long short-		Communicatio		1490			
term memory		n Workshop		-6			
network		and					
		Conference					
Smooth	Confere	IEEE/CVF	Co-	978-	2022	https://ieee	International
maximum	nce	Conference on	author	1-		xplore.ieee.	Conference.
unit: Smooth	Paper	Computer		6654		org/docume	Ranked – 04
activation		Vision and		-		nt/9878772	(in
function for		Pattern		6946			https://scholar
deep networks		Recognition		-3			.google.com/c
using		Conference					itations?view
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technique.							
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monotonic	Paper	Artificial				557	Ranked – 33
Smooth		Intelligence					(in
Trainable							https://scholar

Activation							.google.com/c
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Revocable	Confere	Cryptographer	Co-	978-	2018	https://doi.o	International
	Contere				2010		
identity-based	nce	s' Track at the	author	3-		rg/10.1007/	Conference
encryption	Paper	RSA		319-		978-3-319-	
from codes		Conference		7695		<u>76953-</u>	
with rank				2-3		0_23	
metric.							
Eis-efficient	Confere	Artificial	Co-	978-	2021	https://doi.o	International
and trainable	nce	Neural	author	3-		rg/10.1007/	Conference.
activation	paper	Networks and		030-		978-3-030-	
functions for		Machine		8638		86340-	
better accuracy		Learning		0-7		<u>1_21</u>	
and		Conference					
performance.							

Conference/ workshop Organized

- Member of organization committee - National Workshop on Latex and HTML, 2016.

Awards and Distinctions

- 21 All India Rank in JAM (Joint admission test for admission in M.Sc at IIT's)
- 111 All India Rank in GATE.

Association with Professional Bodies

Life time member of Cryptology Research Society of India (CRSI).

Other Activities

Administrative Activities:

- Member Research Cell, 2023.
- Convenor Admission Committee OBC, 2022.
- Convenor Admission Committee OBC, 2021.
- Teacher-Incharge of the department, 2020-21.
- Convenor NSS committee of staff council, 2021-23.
- Convener of Computerization committee of staff council for the sessions 2016-17 and 2017-18.
- Member of Attendance committee of staff council for the session 2017-18.
- Member of Website committee of staff council for the session 2016-17 and 2017 -18.
- Member of NSS committee of staff council for the session 2015-16, 2017-18 and 2018-19.
- Member of organizing committee of International Conference on Applicable Analysis, February 08-11, 2017.
- Member of organizing committee of National Workshop on Latex and Website Designing, August 11-12, 2016.
- Member of Departmental Admission committee for the session 2015-16, 2016-17 and 2017-18.
- Convener of Departmental Computerization committee for the session 2016-17.
- Member of Departmental NAAC committee during 2016-17.

Invited Talks/Lectures

- Two lectures on Applications of Mathematica at one day workshop conducted by MMH College, Ghaziabad, September 20, 2018.
- Invited talk on Cryptography: A career option for Mathematics students conducted by Satyawati College, University of Delhi, August 02, 2018.
- Three lectures at the Faculty Development Programme, Mathematica: A tool fo computational Analysis conducted by Ramjas College, University of Delhi, March 10-11, 2018.
- Three Lectures at National Workshop on Latex and Website Designing conducted by Department of Mathematics, Shaheed Bhagat Singh College, University of Delhi, August 11-12, 2016.
- Talk on Cryptography: A Career option for Mathematics Students at the seminar Career with Mathematics conducted by the Department of Mathematics, Shaheed Bhagat Singh College, University of Delhi, November 10, 2017.