## **Personal Details**



Name:	Sudesh Kumar
Designation:	Assistant Professor
Qualification:	B.E.(CSE), M.E.(CSE)
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Google Scholar Link:	https://scholar.google.co.in/citations? user=isiOlwUAAAAJ&hl=en
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Linkedin Link:	https://www.linkedin.com/in/sudesh- bhadu-425a8464/details/skills/
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Complete Resume	(upload) General Information
Name	Sudesh Kumar
Designation	Assistant Professor
Qualification	B.E.(CSE), M.E.(CSE)
Date of Birth	01-08-1984
Date of Joining	12-12-2011
Contact Details	1
Phone/Mobile	9086261284
Email ID	sudesh.bhadu@smvdu.ac.in
Specialization	

						vork, Netv Oefined Ne	vork Security, Software etworking	
Education Name of t Degree		alifica	etion Year of Passing		Institute/University			
B.E.(	CSE)		2006		Rajastha	ın Unive	rsity, Rajasthan	
M.E.(CSE)			2009		Punjab Engir	eering (	College, Chandigarh	
Ph.D.	(CSE)		Pursuin	g	Shri Mata Va	ishno De	evi University, Katra	
Teaching/	Indus	try Ex	perience					
Position H	Held		artment and anization	t	From	То	Total Experience	
Assista Profess			i Mata Vaish evi University Katra		12-12-2011	TILL DATE	12 years, 11 months	
Assista Profess			Banasthali University, Rajasthan		14-07-2010	07-12- 2011	1 year, 4 months	
Assista Profess			onal Institute of Technology, Jalandhar		11-01-2010	04-06- 2010	4 months	
Lecture	er		onal Institute of Technology, Jalandhar		27-07-2009	18-12- 2009	4 months	
Administr	ative	Exper	ience			•		
Position Held		artmei inizati	nt and on	Fro	m	То		
Faculty In-charge, Network Centre	N	etworl	ς Centre		2016		2019	
Remote Centre Coordinat or	S	MVDI Bom	U & IIT nbay		2013		Till date	
Research	Expe	rience	•					
Research	Intere	ests:			Machine Learning and network securi		n in computer network	
Brief Research Statement:					My research focuses on applying Machine Learning (ML) models to enhance malware detection and mitigate Distributed Denial of Service (DDoS) attacks. By analysing network traffic patterns, ML models identify anomalies linked to malicious activities in real-time. Supervised learning aids in classifying malware, while unsupervised and reinforcement learning techniques detect and respond to evolving DDoS threats. This work aims to develop scalable, adaptive,			

						and robust solutions for securing modern networks against sophisticated cyberattacks.							
Res	ear	ch	Proje	cts			<i>j</i> = 31	<u> </u>					
Rol e	Project Ty	o et	Titl e	Fu ndi ng Ag en cy	From	То	Amou	Status	Co- Inve stig ator	S a n ct io n O r d e r	Sanction Date		
Jou Year			<mark>ublic</mark> athor(s		S Title & Vol. No.	Journal Name		Indexing (So Science/Sco		of	-		
2024	4	S S K	Verma K Sikka G waraj A Lumar S Kumar A	h.; A.; S.;	Classification of COVID-19 on Chest X-Ray Images Using Deep Learning Model with Histogram Equalization and Lung Segmentation, volume 5	SN Computer Science		Science/Scopus  Scopus		Scopus			
2024	4	S K	Kumar S hersing Kumar S Verma K	gh; S.;	Malware Classification Using Machine Learning Models, volume 235	Procedia Computer Science		_		Scopus			
Con	fere	enc	e Pul	olicat	ions		•						
Year	•		Auth	or(s)	Title	Conference nan with place	ne	Indexing (So		of			
20	)24		Haji Kum		Feature Selection-Based Machine Learning Model for Malware Detection	Communication	Signals and Communication Scope Technology		Scopus				
20	2023		Verma K.; Kumar A.; de Sales L.M.; Kumar S.; Sharma A.K.;		Enabling Real- Time Vehicle-to- Vehicle (V2V) Communication for Intelligent Transportation System (ITS)	Lecture Notes in Electrical Engineering		Scopus					
20	)23		Kumar S.; Network Pathak P.; Intrusion			Lecture Notes Networks and Sys		Sco	pus				

	K.; Goswami V.; Mahindru A.	System Using Machine Learning				
2021	Vaid P.; Bhadu S.K.; Vaid R.M.	Intrusion detection system in Software defined Network using machine learning approach - Survey	Proceedings of the 6t International Conference on Communication and Electronics Systems, ICCES 2021		Sc	opus
2019	Kumar S.; Sunanda; Arora S.	Light-Fidelity: Next Generation Wireless Networks-A Survey	Proceedings of the 2n International Conference on Smar Systems and Inventiv Technology, ICSSIT 2019	t re	Sc	opus
2017	Bhat A.R.; Bhadu S.K.	1	2017 IEEE Internation Conference on Smar Technologies and Management for Computing, Communication, Controls, Energy and Materials, ICSTM 201 - Proceedings	t l	Scopus	
2009	Goel S.; Kumar S.	An improved method of detecting spoofed attack in wireless LAN	1st International Conference on Networks and Communications, NetCoM 2009		Scopus	
Book/Cha	pters Writ	ten				
Туре	Title	Publisher	Author(s)	ISBN/ISS No.	ISBN/ISSN Year No.	
Book	WiMAX Technolo gy: Security issues & Solutions	LAMBERT Academic Publisher, Germany.	Sudesh Kumar	978-3-84 0840-		2012
Research	Supervisi	on				
Program me Name	Scholar Name	Research Topic	Status	Year	Co	o-Supervisor (s)
M.Tech(C SE)	Lubna Javed Haji	Feature Selection Based Machine Learning Model For Malware Detection	Completed	2022		
M.Tech(C SE)	Ankush Sharma	Detection Of DDos Attack Using Machine Learning	Completed	2021		
M.Tech(C SE)	Prakriti Vaid	Ml Based Intrusion Detection System For Software Defined Networks	Completed	2020		

M.Tech(C SE)	Komal Bhardwa j	Sof De	llancing In tware fined orking	Completed		201	19	
M.Tech(C	Niharika	Softwar	e Defined	Completed		201	8	
M.Tech(C SE)	Samreen Kour	Implen Fire Functio Mesh N Usin	k Firewall nenting A ewall nality for Networks ng Ryu troller	Completed		201	17	
M.Tech(C SE)	Sakshini Hangloo	Softwar Network Intrusion And Pr	e Defined king Based a Detection revention stem	Completed		201	17	
M.Tech(C SE)	Ashim Rafiq Bhat	Base Adaptati	e Learning ed Rate on In Dash cove QOE	Completed		201	16	
M.Tech(C SE)	Prabjot Singh	Recog Urdu Sc H	ation-Free nition of ript Using mm	Completed		201	15	
M.Tech(C SE)	Divya Khajuria	Blackl Grayhol In Ma	g Multiple nole And le Attacks mets By ng AODV	Completed		201	15	
M.Tech(C SE)	Gurjeet Singh	Improv Wireld Using	rmance rement of ess TCP Modified DA	Completed		201	4	
M.Tech(C SE)	Arjun Puri	Codes: A for Sec Genera Key Re	Control A Solution cret Key ation and freshment	Completed		201	13	
Patents					l l			
Title	Reg./Re f.No	Date of Award /Fillin g	Aw	arding Agencies			Sta	atus
Conference	ces / Worl	kshops/	FDP/STC	/Training/Skill [	ev C	ou	rses Org	anized
Category	Type	Т	itle	Venue	Fror	n	То	Designati on
FDP			ek FDP on e Learning	MMTC, SMVDU, Katra	28th Feb 2024	,	5th March , 2024	Co- Organizing Secretary

	for Business Intelligence				
Workshop	One day workshop on C and C++	IIT Bombay, & SMVDU	29 <sup>th</sup> Februar y 2020	29 <sup>th</sup> February 2020	Remote Centre Coordinato r
Workshop	One day workshop on Arduino	IIT Bombay, & SMVDU	8 <sup>th</sup> Februar y 2020	8 <sup>th</sup> February 2020	Remote Centre Coordinato r
Workshop	One Day Blended Mode Workshop on R	IIT Bombay, & SMVDU	9th Novem ber 2019	9th Novemb er 2019	Remote Centre Coordinato r
Workshop	Two Days National Workshop on Ethical Hacking & Cyber Security	SMVDU Katra	25th Septem ber 2019	26th Septemb er 2019	Remote Centre Coordinato r
Workshop	One Day Esim Workshop	IIT Bombay, & SMVDU	21st Septem ber 2019	21st Septemb er 2019	Remote Centre Coordinato r
Workshop	One Day Linux Workshop	IIT Bombay, & SMVDU	4th August 2019	4th August 2019	Remote Centre Coordinato r
Workshop	One Day SciLab Workshop	IIT Bombay, & SMVDU	4th May 2019	4th May 2019	Remote Centre Coordinato r
Winter School	Two Weeks Winter School for Engg. Streams at Faculty Development Centre	SMVDU Katra	16th Februar y 2019	1st March 2019	Remote Centre Coordinato r
FDP	AICTE Approved FDP on Pedagogy for Online and Blended Teaching Learning Process	IIT Bombay, & SMVDU	3rd May 2018	30th May 2018	Remote Centre Coordinato r
FDP	AICTE Approved FDP on Foundation Program in ICT for Education	IIT Bombay, & SMVDU	8th March 2018	12th April 2018	Remote Centre Coordinato r
STTP	Two-Week ISTE STTP on "Electric Power System"	IIT Kharagpur & SMVDU	10th July 2017	15th July 2017	Remote Centre Coordinato r
STTP	Two-Week ISTE STTP on "CMOS, Mixed Signal and Radio frequency VLSI Design"	IIT Kharagpur & SMVDU	30th January 2017	4th February 2017	Remote Centre Coordinato r
STTP	Two-week ISTE STTP on "Introduction to Structural Engineering"	IIT Kharagpur & SMVDU	4th January 2016	9th January 2016	Remote Centre Coordinato r

STTP		Two-week ISTE STTP on "Engineering Physics"	IIT Bombay, & SMVDU	8th Decem ber 2015	18th Decembe r 2015	Remote Centre Coordinato r
STTP		Two-week ISTE STTP on "Introduction to Design of Algorithms"	IIT Kharagpur & SMVDU	25th May 2015	30th May 2015	Remote Centre Coordinato r
STTP		Two-week ISTE STTP on "Control Systems"	IIT Kharagpur & SMVDU	2nd Decem ber 2014	12th Decembe r 2014	Remote Centre Coordinato r
STTP		Two-week ISTE sponsored workshop on "Computer Networking"	IIT Bombay, & SMVDU	31st June 2014	5th July 2014	Remote Centre Coordinato r
workshop		Two-week ISTE sponsored workshop on "Computer Programming"	IIT Bombay, & SMVDU	16th June 2014	21st June 2014	Remote Centre Coordinato r
workshop		Two-week ISTE sponsored workshop on "Signals and Systems"	IIT Kharagpur & SMVDU	2nd January 2014	12th January 2014	Remote Centre Coordinato r
workshop		ISTE workshop on "Engineering Mechanics"	IIT Bombay, & SMVDU	26th Novem ber 2013	6th Decembe r 2013	Remote Centre Coordinato r
workshop		Two-week ISTE sponsored workshop on "Analog Electronics"	IIT Kharagpur & SMVDU	4th June 2013	14th June 2013	Remote Centre Coordinato r
workshop		Two-week ISTE sponsored workshop on "Database Management Systems"	IIT Bombay, & SMVDU	21st May 2013	31st May 2013	Remote Centre Coordinato r
workshop		2-DAY ISTE WORKSHOP ON "RESEARCH METHODS IN EDUCATIONAL TECHNOLOGY"	IIT Bombay, & SMVDU	2nd Februar y 2013	9th February 2013	Remote Centre Coordinato r
Conference	ces / Work	kshops/ FDP/STC	/ Training/Skill	Dev Co	urses Par	ticipated
Category	Туре	Title	Venue	From	То	Designati on
Conferenc e		Malware Classification Using Machine Learning Models	2nd International Conference on Machine Learning and Data Engineering (ICMLDE 2023),	Novem ber 23, 2023	Novemb er 24, 2023	

		ICMLDE, UPES,			
		Dehradun, India			
		International			
Conferenc e	Feature Selection- Based Machine Learning Model for Malware Detection	Conference on Machine Learning, Deep Learning, and Computational Intelligence for Wireless Communication, National Institute of Technology Tiruchirappalli (NIT Trichy), Virtual Mode, Springer	March 22, 2023	March 23, 2023	
Conferenc e	Network Intrusion Detection System Using Machine Learning	International Conference on Emerging Trends and Technologies on Intelligent Systems (ETTIS 2023), Centre for Development of Advanced Computing (C- DAC), Noida, India	Februar y 23, 2023	February 24, 2023	
Conferenc e	Intrusion detection system in Software Defined Network using machine learning approach - Survey	2021 IEEE 6th International Conference on Communication and Electronics Systems (ICCES), IndiaPPG Institute of Technology, Coimbatore, India.	July 8, 2021	July 10, 2021	
Conferenc e	Light-Fidelity: Next Generation Wireless Networks - A Survey	IEEE International Conference on Smart Systems and Inventive Technology (ICSSIT 2019), Francis Xavier Engineering College, Tirunelveli, India	Novem ber 27, 2019	Novemb er 29, 2019	
Conferenc e	A survey on machine learning: concept, algorithms, and applications	International Conference on Machine Learning & Computational Intelligence (ICMLCI 2017), Shri Mata	Septem ber 28, 2017	Septemb er 29, 2017	

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		Vaishno Devi			
		University			
		(SMVDU),			
		Katra, J&K, India			
		IEEE			
		International			
		Conference on			
		Smart			
		Technologies and			
		Management for			
	Machine Learning	Computing,			
Conferenc	based rate	Communication,	Amount	Amoust	
e	adaptation in DASH to improve	Controls, Energy,	August 2, 2017	August 4, 2017	
	Quality of	and Materials	2, 2017	4, 2017	
	Experience	(ICSTM 2017),			
	Experience	Vel Tech Dr. RR			
		& Dr. SR			
		University,			
		Avadi, Chennai,			
		Tamil Nadu,			
		India First			
	An Improved	International			
	Method of	Conference on	Decem	Decembe	
Conferenc	Detecting Spoofed	Networks &	ber 27,	r 29,	
e	Attack in Wireless	Communications	2009	2009	
	LAN	(NetCom 2009),			
		Chennai, India			
	Building Web	Edunet			
FDP	Development	Foundation and	11/11/2	15/11/20	
121	Solutions with	AICTE	024	24	
	Cloud Computing		2 2 nd		
FDP	Recent Trends in	Amity	22 <sup>nd</sup>	26 <sup>th</sup> July,	
FDF	computational sciences	University, Kolkata	July, 2024	2024	
	One week FDP on	NUIKala			
	Machine Learning		28th	5th	
FDP	for Business	SMVDU, Katra	Feb	March,	
	Intelligence		2024	2024	
	5 Days FDP on				
	Building Advanced	Edunet	29/01/2	02/02/20	
FDP	Data Analytics	Foundation and	024	02/02/20 24	
	Applications with	AICTE	024	∠+	
	cloud				
Orientation	NIED 2020				
and Sansitizati	NEP 2020	LICC MATC	00/01/2	17/01/20	
Sensitizati	Orientation and Sensitization	UGC-MMTC, SMVDU, Katra	08/01/2 024	17/01/20 24	
on Programm	Programme	Sivi v DO, Katra	024	∠4	
e	1 Togrannie				
	Five Days FDP on		0.1 st	O 5th	
EDD	Trends in	BBDNIIT,	21 <sup>st</sup>	25 <sup>th</sup>	
FDP	Technological	Lucknow	August	August, 2023	
	Intelligence 2023		, 2023	2023	
	UGC -				
	Approved Short	Indira Gandhi Na	12th Ju	20th June	
STPDP	Term Professional	tional Open Univ	ne, 202	, 2023	
	Development Progr	ersity, New Delhi	3	,	
	amme on				

	'Implementation of				
	NEP- 2020 for Universit				
	y and				
	College Teachers' 3rd One week				
workshop	International workshop on technical writing using Latex	VIT-AP University	30th March, 2023	5th April, 2023	
Refresher Course	UGC- SPONSORED Two-Weeks ONLINE Refresher Course on "Artificial Intelligence and Machine Learning"	JNTU, Hyderabad	13th Septem ber 2021	25th Septemb er 2021	
FDP	AICTE Industry Oriented FDP on Data Science	MSME Technology Development Centre, Meerut	19/07/2 021	23/07/20 21	
FDP	One Week Faculty Development Programme on "Advance Cyber Security and Forensic"	E & ICT Academy, IIT Kanpur	26th July 2021	31st July 2021	
FDP	Two Weeks Faculty Development Programme on "Data Science"	E & ICT Academy, IIT Kanpur	5th July 2021	16th July 2021	
FDP	5-Days Online FDP on "Emerging Trends in Engg. & Tech"	MRSPTU, Bhatinda	6th July 2020	10th July 2020	
Workshop	4-Days workshop on "Train the Trainer on Examination Reforms"	BVB College of Engg., Hubballi	4th Decem ber 2020	7th Decembe r 2020	
FDP	One Week Online AICTE ATAL FDP on Cyber Security	NITTTR, Chandigarh	30th April 2020	4th May 2020	
	Two Weeks "Training of Future Skills Technologies: Cyber Security"	IIT Roorkee	24th Februar y 2020	6th March 2020	
FDP	One Week FDP on "Cyber Security and Cyberwar"	UPES, Dehradun	3rd June 2019	7th June 2019	
FDP	One Week FDP on "Research Methodology using R & E-views"	SMVDU, Katra	21st May 2019	25th May 2019	
Workshop	One Week Workshop on "PEDAGOGY"	SMVDU, Katra	11th March 2019	15th March 2019	

	O W 1 FDD		28th	4th	
FDP	One Week FDP on "Data Analytics"	NIT, Kurukshetra	Februar y 2019	March 2019	
STC	One Week STC on "Advanced Techniques for Next Generation Networks"	SMVDU, Katra	16th Decem ber 2018	20th Decembe r 2018	
FDP	One Week FDP on "Wireless & Mobile Communication"	EICT, IIT Roorkee, SMVDU	3rd Decem ber 2018	7th Decembe r 2018	
FDP	One Week FDP on "Networking & Cyber Security"	SMVDU, Katra	3rd July 2018	7th July 2018	
STP	Five Days Teqip- III Summer Training Program on Active Learning Workshop	IIT Bombay	11th June 2018	15th June 2018	
FDP	One week FDP on Emerging Issues in VLSI Design	SMVDU, Katra	7th May 2018	11th May 2018	
FDP	One week FDP on Application of soft computing and machine learning	SMVDU, Katra	3rd April 2018	7th April 2018	
Workshop	Three Days Workshop TEQIP- III sponsored workshop on NBA Accreditation	Engg. Staff College of India, Jammu	8th Decem ber 2017	10th Decembe r 2017	
FDP	Two Days Weekend Faculty Development Programme - SSP on "Introduction to Machine Learning"	IIT Bombay & SMVDU, Katra	16th Decem ber 2017	17th Decembe r 2017	
STC	AICTE Recognized Short Term course on "CISCO CCNA Exploration"	NITTTR, Chandigarh	24th July 2017	28th July 2017	
Workshop	Attended three days national workshop on ETITUM	Calicut University, Calicut	14th Decem ber 2016	16th Decembe r 2016	
Workshop	Two day workshop on Ultra low power biosensors and implantable microsystems	SMVDU, Katra	2nd Decem ber 2016	3rd Decembe r 2016	
Workshop	One-day workshop on "Patent Drafting and Filing	SMVDU, Katra	20th Octobe r 2016	20th October 2016	
STC	AICTE Recognized short term course on "Optimization	DME, SMVDU	24th Octobe r 2016	28th October 2016	

	using MATLAB				
	through ICT"				
STC	AICTE Recognized short term course on "Recent Trends in Automobile Engineering through ICT"	DME, SMVDU	29th Februar y 2016	4th March 2016	
STC	AICTE Recognized short term course on "Mobile Computing through ICT"	SCSE, SMVDU	15th Februar y 2016	19th February 2016	
Refresher Course	Refresher Course on Information Technology	HRDC, GNDU, Amritsar	23rd June 2016	13th July 2016	
Orientation Programm e	23rd Orientation Programme (4 weeks)	UGC-HRDC, BPSMV, Haryana	3rd June 2015	30th June 2015	
Workshop	One Day Interactive Workshop for Remote Center Coordinators	IIT Bombay	29th Novem ber 2014	29th Novemb er 2014	
Workshop	CEP course on "Coordinator's Workshop on Computer Networking"	IIT Bombay, Mumbai	5th May 2014	9th May 2014	
STC	One Weeks AICTE recognized short term course on "Computer Network using CCNA Through ICT"	NITTTR, CHD & SMVDU	10th March 2014	14th March 2014	
STC	One Weeks AICTE recognized short term course on "Network Security and Firewall Through ICT"	NITTTR, Chandigarh	18th Novem ber 2013	22nd Novemb er 2013	
Training Program	IBM SEED Training Program	SMVDU, Katra	15th August 2013	18th August 2013	
STC	One Weeks AICTE recognized short term course on .NET TECHNOLOGIES	MIMIT, Malout	8th July 2013	12th July 2013	
Workshop	ISTE Workshop on "Aakash for Education"	IIT Bombay	10th Novem ber 2012	11th Novemb er 2012	
Seminar	UGC Sponsored National Seminar on Wireless	SMVDU, Katra	24th March 2012	25th March 2012	

			Com	munica	tion &	:			
			Networks						
Workshop	orkshop			Three Donal Wo "Biolo bases do Minin pproac	orkshop gical & Data g	Banasınan University	18th Decem ber 2010	19th Decemb r 2010	
Workshop			Two Weeks Workshop on "Effective Teaching/Learnin of Computer Programming"			IIT Bombay	July 2010	July 2010	
<b>Expert Ta</b>	lks					1	· ·	1.0	1
Title Place		Year			Description of Event				
Installation , Trouble Shooting and Network Sharing	SMVDU , Katra		2019		Executive Training Program on 'Advance Computer Skills for Effective Performance' of SMVDSB Employee				
Consultar Title of		Clie							Status
Consultancy		y Organiza tion		Involved					
Internatio Sr.No.	nal	& Nati Tit		Expo	sure	Desc	cription		
Honors &	Red	cognit	ions .	Achie	ved				
Sr.No.		Title		Activity		Given By		Year	
Links									
LinkedIn		https:	<u>//www</u>	.linked	lin.cor	n/in/sudesh-bhadu-42	25a8464/d	etails/skil	ls/
Research gate		https:/	/www.	researc	hgate.	net/profile/Sudesh-Ku	mar-22		
Facebook									
Instagram	1								