



JSS Mahavidyapeetha
JSS Academy of Technical Education
Department of Information Technology



FACULTY PROFILE

1. Personal Details

NAME	Dr. BIRENDRA KUMAR VERMA	
DEPARTMENT	Information Technology	
DESIGNATION	Assistant Professor	
PHONE	0120-2400115	
EMAIL ID	birendraverma@jssaten.ac.in	
Date of Joining (JSSATEN)	15-Feb-2005	

2. Experience

Total Experience in Years:22 years	Teaching: 22 Years	Industry: Nil	Research:06
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3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E. / M.Sc.,	CSE	2003	I.E.T, Lucknow	Lucknow University
M.E. / M.Tech. / M.Sc.	CSE	2014	NITTTR ,Chandigarh	Panjab University
Ph.D.	CSE	2025	Banasthali Vidyapith, Rajasthan	Banasthali University
Post Doc.				

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 02	National: 00
Papers Published in SCOPUS indexed Journals	International: 04	National: 00
Papers Published in other Journals	International: 00	National: 00
Papers Presented in Conferences / Symposium	International: 02	National: 00
Books / Book chapters Published		
	Name of the book: Publisher: Year of Publication:	

5. Research Guidance

PhD Guide? Give field & University		
PhDs / Projects Guided	Ph.D.Awarded: Yes Guiding: NIL	Projects at Master's Level: 00 Projects at Bachelor's Level: 40

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
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ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	Peer-to-Peer Energy Trading Model Using Blockchain and IOT- Based Microcontroller. Application no-202211061832A, Date of filling of Application-31/10/2022, Publication Date- 04/11/2022.	Published
2	A proficient web based health tracking system provided by cloud computing and machine learning, Application No.202211071370 A, Date of filing of Application :10/12/2022, Publication Date : 23/12/2022.	Published
3	Design an automated text grading system for scoring text, Application No.202411041578 A, Date of filing of Application :29/05/2024, Publication Date : 07/06/2024.	Published

iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization

7. Awards Received

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8. Publications

i. International Journals

Sl. No	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Software security with natural language processing and vulnerability scoring using machine learning approach	Birendra Kumar Verma; Ajay Kumar Yadav	Journal of Ambient Intelligence and Humanized Computing	Volume 15, pages 2641–2651, (2024)	YES		Springer
2	Advancing Software Vulnerability Scoring: A Statistical Approach with Machine Learning Techniques and GridSearchCV Parameter Tuning.	Birendra Kumar Verma; Ajay Kumar Yadav	SN Computer Science Publishing model	Volume 5, article number 595, (2024)	YES		Springer
3	Pneumonia detection with QCSA network on chest X-ray	Birendra kumar verma et-al	Scientific Reports	13, Article number: 9025 (2023)	SCIE, WOS	5	Nature
4	Efficient pneumonia detection using Vision Transformers on chest X-rays	Birendra kumar verma et-al	Scientific Reports	14, Article number: 2487 (2024)	SCIE, WOS	5	Nature

ii. National Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher

iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Software Vulnerability Classification Using Learning Techniques	Birendra Kumar Verma, Ajay Kumar Yadav & Vineeta Khemchandani	Applications of Computational Intelligence in Management & Mathematics	vol 417,2023	YES		Springer
2	Software Vulnerability Analysis Based on Statistical Characteristics	Birendra Kumar Verma; Ajay Kumar Yadav	Advances in Artificial-Business Analytics and Quantum Machine Learning	vol 1191,pp 133–145,2024	YES		Springer

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	'Cyber Security'	conducted by IIT, Bombay	10 th July to 20 th July ,2014
2	'Soft Computing and application'	ISI, Kolkata and JSSATE, Noida	02-04,2014
3	'Emerging Trends in Computing Education'	CSE/IT Department JIIT, Noida	06 th July to 11 th July ,2015.
4	"Php & MySQL"	NITTTR, Chandigarh	31/08/2015 to 04/09/15
5	"Instructional Planning & Delivery"	NITTTR, Chandigarh	16/11/2015 to 20/11/15
6	"Innovation, Youth and Social Entrepreneurship"	EDIC Department NITTTR, Chandigarh	18/01/2016 to 29/01/16
7	"Effective Curriculum Implementation"	NITTTR, Chandigarh	07/03/2016 to 11/03/16
8	NPTEL workshop for SPOCS	IIT, Kanpur	June 11,2016.
9	Machine Learning and its Application in Text and Image Analytics	Department of IT at JSSATE, Noida	30/01/2017 to 03/02/17.
10	"Universal Human Values and Professional Ethics"	Value Education Cell, AKTU Lucknow at KIET ,Ghaziabad	15 th June,2018 -21st June, 2018.
11	"Entrepreneurship" Sponsored by	NIESBUD, Noida	12/02/2018 to 26/02/18.

	NSTEDB, Dept. Of Science and Technology.	Campus	
12	Machine Learning and Internet of Things	JIMS, Greater Noida	09/12/2019 to 13/12/19.
13	Recent Trends and Applications of Machine Learning and Deep Learning in IT	RAIT, Navi Mumbai	25/05/2020 to 29/05/20.

v. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	Machine Learning and its Application in Text and Image Analytics	Department of IT at JSSATE, Noida	30/01/2017 to 03/02/17.	Organizing Member
2.	Smart India Hackathon-2018 at	Jssate, Noida	2018	Organizing Member

vi. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organizer	Date

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	“Cryptography and Network Security””	NPTEL	JUNE 2020	93%

10.Membership of Professional Bodies:

11. Any other information you would like to share about your professional experience

Dr. Birendra Kumar Verma
Assistant Professor, Dept. of IT
JSS Academy of Technical Education, Noida