




Mahatma Jyotiba Phule Rohilkhand University, Bareilly

महात्मा ज्योतिबा फुले रुहेलखण्ड विश्वविद्यालय, बरेली

A State University - Government of Uttar Pradesh; NAAC A++ Accredited; ISO 9001:2015 & 14001:2015 Certified



Title	Dr.	First Name	ANIL KUMAR	Last Name	BISHT	Photograph
Designation		ASSISTANT PROFESSOR (Sr. Scale)				
Department		Computer Science & Information Technology				
Address	Campus	Department of CS & IT, F E T				
	Residence	E-8, Patel Nagar, Udaipur-Khas , Izzat-Nagar, 243122, Bareilly				
Mobile No.		9412928340				
Email ID		Personal	anilbisht_20@yahoo.com			
		University Domain	anil.bisht@mjpru.ac.in			
Professional Networking ID, i.e. LinkedIn, Twitter etc.		Linkedin: www.linkedin.com/in/dr-anil-kumar-bisht-b586481b4 Twitter: https://twitter.com/anilbisht_20				
Educational Qualifications (Graduation Onwards)						
Course/Degree		Institution		Year	Details/Thesis Topic/Subjects	
B.Tech. (CSE)		U.P. Technical University (S.R.M.S. CET, Bareilly): 1 st Batch of U.P.T.U.		2004	Computer Science and Engineering	
M.Tech. (CSE)		U.K. Technical University, Dehradun, Uttarakhand (U.K.T.U.)		2012	“Performance Evaluation of various routing approaches in Vehicular Ad- Hoc Networks based on realistic	
Ph.D.		MJP-Rohilkhand University, Bareilly, U.P.		2021	“Application of Computation Techniques in Water Quality Forecasting Model: A Case Study of Ganga River”	
Online Certification Course on “Machine Learning” from IIT-Kanpur		Ministry of Electronics & IT, Govt. of India, IIT-Kanpur		2018	“Machine Learning”	
Career Profile: (Total Experience=21 Years)						
Organization / Institution				Designation	Duration	Nature of Duties
Department of CS&IT, FET, MJP				Assistant	08-09-2018 to	Teaching, Research

Rohilkhand University, Bareilly (U.P. State Govt. University)		Professor (Sr. Scale)		till date		and Administrative	
Department of CS&IT, FET, MJP Rohilkhand University, Bareilly (U.P. State Govt. University)		Assistant Professor (Sr. Scale)		08-09-2013 to 07-09-2018		Teaching, Research and Administrative	
Department of CS&IT, FET, MJP Rohilkhand University, Bareilly (U.P. State Govt. University)		Assistant Professor (Permanent)		08-09-2008 to 07-09-2013		Teaching, Research and Administrative	
KEC, Dwarahat, Almora, Uttarakhand (Uttarakhand State Govt.)		Lecturer (Permanent)		03-01-2007 to 06-09-2008		Teaching, Research and Administrative	
KEC, Dwarahat, Almora, Uttarakhand (Uttarakhand State Govt)		Guest- Lecturer		23-08-2004 to 02-01-2007		Teaching and Administrative	
Research Interests / Specialization							
Artificial Intelligence, Machine Learning, Deep Learning, Applications of AI in Environmental Problems							
Research Experience in Years:							
13 Years							
No of Research Scholars Successfully Guided							
Name of Programme		Awarded			Under Supervision		
Ph.D.		Nil			02 (MJP)		
Researcher/ Expert ID	Scopus	Orchid	Publons	Vidwan	Google Scholar		
	55391284100	0000-0002- 5629-8809	ACQ-8003-2022	165380	ei2JLdcAAA AJ&hl		
Teaching Experience (Subjects/Courses Taught):							
21 Years Discrete Mathematical Structure, Computer Organization, Operating System, Object-Oriented Programming (C++), Computer Fundamental & C- Programming, Software Engineering Research Methodology, Parallel Computing							
Honours / Awards & Fellowship FOR OUTSTANDING WORK							
Name of Award/ Fellowship		Awarded By					

				Name of Governmental Agency		Name of Government Supported Organization/ Department		Name of International Recognized Body	
Best Paper Award in an International Conference				International conference on Advances in Computing (ICAC-2024), organized by department of CSE, SRMS, CET, Bareilly, U.P.		SRMS, CET, Bareilly, U.P.			
Certificate of Honour for outstanding contribution during NAAC Assessment cycle-III on 5 th Sept. 2023				MJP Rohilkhand University		MJP Rohilkhand University			
Shishak-Samman on 06-08-2023						Uttrakhand Pariwar			
Shishak Samman on 05-09-2022				MJP Rohilkhand University					
Best Research Paper (Hindawi-SCI), International Excellence Awards-2022						Quantum University, Dehradun, Uttarakhand			
Shishak Samman on 05-09-2021				MJP Rohilkhand University		Higher Education Dept., UP Govt			
Global Teacher Award, India on 24-10-2021						AKS Education Awards			
Medhavi Chaatra Samman in Class X, 1998						Uttarakhand Shod Sansthan			
Publications /Academic Activities (Numbers Only)									
Books & Monographs (Single/First Author)	4	Research Papers Published in International Journals	23	Papers Presented in Seminars/ Conferences	22	Seminars/ Conferences Organized	6	Research Projects (Completed)	-
Books (Co-authored)	3	Research Papers Published in Other Journals	-	Seminar/ Conferences Attended	6	Workshops Organized	5	Research Projects (Ongoing)	2
Books (Edited)	2	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.		Sessions Chaird in Seminars/ Conferences	4	Membership of Academic/ Professional Bodies	3	Foreign Countries Visited for Academic Assignments	1
Chapters in Edited Books	21			Resource Lectures Delivered	7				

Details of Publications /Academic Activities						
(a) Authored Books/ Monographs: 07						
(b) Edited Books: 02						
(c) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals: 25 (Recent)						
Sr. No.	Year of Publication	Title	Name of Journal	ISSN No	Citations	Impact Factor
1.	2024	Enhancing natural disaster analysis and waste classification: a novel VGG-FL approach”	Environmental Monitoring and Assessment, Volume 196, article number 646, pp. 1-15, (2024) (SCIE)	0167-6369 (P), 1573-2959 (E)		2.9
2.	2024	Air Quality Modeling and Prediction: An Investigation of Machine Learning Approaches and Exploratory Data Analysis	Nanotechnology Perceptions, Vol. 20 No. 7, pp. 4141-4149, 2024 (SCOPUS)	1660-6795		0.179
3.	2024	Lifecycle Maintenance Strategies for Solar PV Systems: A Focus on Rooftop and Ground-Mounted Installations	Nanotechnology Perceptions, Vol. 20 No. 7, pp. 4141-4149, 2024 (SCOPUS)	1660-6795		0.179
4.	2024	Insights into Undergraduate Choices for Vocational Education Under NEP 2020	Nanotechnology Perceptions, Vol. 20 No. 7, pp. 4141-4149, 2024 (SCOPUS)	1660-6795		0.179
5.	2024	Energy-Efficient Routing Approach Based on Free Hold Participation and Acquisition Hierarchical Network of Forwarder Nodes in WSNs	International Journal of Business Analytics (IJBAN), Volume 11, Issue 1, pp: 1-17, 2024 (ESCI, SCOPUS)	2334-4547		0.6
6.	2024	Unraveling Nomophobia: An Exploratory Data Analysis using Python”, the - June 2024	Indian Journal of Technical Education, IJTE (ISTE), Vol. 47-No.1, pp. 39-46, 2024 (UGC)	0971-3034		
7.	2024	Air Quality Modeling using Machine Learning: Step-By-Step Procedure	Journal of Management and Technology, Vol 19, Issue 02, pp. 101-112, 2024 (UGC)	0974-3294 (P)		

8.	2024	Transfer Learning: Concepts, Applications, Challenges and Future Directions	Journal of Indian Institute for Engineering, Management and Sciences (JIIEMS), 2024 Volume 3, pp. 55-57, 2024 (Peer Reviewed Journals)	2347-6184		
9.	2024	Securing the Agricultural Supply Chain in Pilgrimage Tourism: The Role of Block Chain Technology	Journal of Management and Health Sciences, Vol. 2, No. 2, 2024 (Peer Reviewed Journals)	2505-0680 (P)		
10.	2022	A Novel Deep Learning Based Healthcare Model for COVID-19 Pandemic Stress Analysis	Computers, Materials & Continua (CMC-2022, vol 72, no.3) (SCI)	1546-2218	18	3.1
11.	2022	Lung Cancer Classification and Prediction using Machine Learning and Image Processing,	BioMed Research International, BMRI (SCOPUS)	2314-6133	160	3.246 [2022]

(d) Chapter/Paper Published in Edited Books: 21 (Recent)

Sr. No.	Publication		Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN	D OI	Citation Google/web of sc.
	National	International (Int.)							
1.		Int.	Development Of a Fuzzy Logic System for Monitoring the Health Status of Patients in Real Time	The recent Advancements in Fuzzy-Based Internet of Medical Things (IoMT)	Wiley Online Library, Scrivener publishing LLC	2024	978-13-94242252	10.1002/9781394242252.ch5	2
2.		Int.	Reshaping Environmental Science Through Machine Learning and IoT, Chapter 17 (IGI GLOBAL)	Methods, Techniques, and Application of Explainable Artificial Intelligence	IGI GLOBAL	2024	979-8369323519	10.4018/979-8369323519	
3.		Int.	Advancements in Science and Technology for Healthcare, Agriculture, and Environmental Sustainability, Chapter 53	Design of Artificial intelligence and Internet of Things-based clinical decision-making system	Taylor & Francis (CRC Press, London)	2024	978-1032708348	10.1201/9781032708348	

			Taylor & Francis (CRC Press, London)						
(e) Invited as Resource Lectures Person/Examiner/Expert: 08									
(f) Seminars/Conferences/Workshops/Expert Talks Organized: 39 (Recent)									
<div>1. Organized “Campus Tour” on occasion of Deeksharambh-2025 on 17-Sept-2025 in FET, MJPRU.</div> <div>2. Organized “Technical Quiz” on the occasion of Engineer’s Day on 15th-Sept-2025 in FET, MJPRU.</div> <div>3. Organized “Interactive Quiz & Road Safety Awareness Program” on occasion of Deeksharambh-2025 on 15-Sept-2025 in FET, MJPRU.</div> <div>4. Organized Webinar on "Internship Trends in IT Industry" , in the department of CSIT, MJPRU on 04-Aug-2025 in collaboration with AppSquadz, Noida.</div> <div>5. Organized an expert talk on "The Role of Critical Thinking in Engineering: Rethinking Solutions for the SDGs_" in the department of CSIT, MJPRU on 01-March-2025 in collaboration with IEEE student branch MJPRU & IT-Clinic.</div> <div>6. Organized an expert talk on “IIM and B-School selection Process” in the department of CSIT, MJPRU on 25-Oct-2024 in collaboration with IEEE student branch MJPRU & IT-Clinic.</div> <div>7. Organized Seminar On "Data Analytics and Python” on 01-Oct-2024 in department of CSIT in collaboration with IEEE student branch MJPRU & TECHVISION TECHNOLOGIES.</div> <div>8. Organized National Seminar on “Navigating Criminal Law Reforms in India-2023” on 27-07-2024 in ATAL Sabhagaar, MJPRU.</div> <div>9. Organized workshop on ""Unlocking IT Success- Exploring Career with Python" on 27-Feb-2024 in department of CSIT in collaboration with IEEE student branch MJPRU & CADD CENTRE.</div> <div>10. Organized Value-Added Course on “Foundations of Programming Strategies & Solutions”, as Co-Coordinator during 22-27, Feb, 2024 in the Department of CSIT, MJPRU.</div> <div>11. Organized webinar on “Navigating the Future: The Rise of AI Professionals” on 12-Jan-2024 in the department of CSIT in collaboration with IFACET, IIT-Kanpur & IKIGAI School of AI.</div>									
(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)-02 (Ongoing)									
Sr. No.	Year	Name of Project	Funding Agency	Amount	Duration				
					From	Till			
1.	2024	Land Use and Land Cover Transformation analysis using Deep Learning	Govt. of UP, Higher Education, R&D Scheme	Rs. 1,76,0002	2024	2025			
2.	2023	Development of Air-Quality Prediction Model Based on Different Machine Learning Techniques	IRG-Scheme, DoR, MJPRU	5 Lakhs	2023	2025			
(h) Administrative Positions/Assignments Held (Recent) Responsibilities & Positions held with Present Employer (MJPRU, Bareilly, U.P.)									

Sr. No.	Post	Organization	Duration	
			From	To
1.	Member, IQAC Working Committee	MJPRU	31-01-2025	Till date
2.	Member, Samarth Portal, Implementation Committee: (Base Module Coordinator)	MJPRU	19-03-2024	Till date
3.	Coordinator, Raj Bhavan Monitoring Portal	MJPRU	15-12-2023	Till date
4.	Member, Question Paper Moderation Committee (MJPRU All Courses)	MJPRU	19-02-2025	Till date
5.	Asstt. Co-Ordinator, Digital Mode Evaluation	MJPRU	21-01-2025	Till date
6.	Member, Counselling Team for Admission to various courses in FET	FET, MJPRU	29-06-2025	Till date
7.	ADSW, CSIT	MJPRU	06-12-2023	Till date
8.	Co-Coordinator, Grass Root Innovation Centre (GRIC)	MJPRU	29-10-2020	Till date
9.	Member, Golden Jubilee Committee	MJPRU	01-02-2025	
10.	Member, Alumni Meet Committee (Held on 14-02-2025)	MJPRU	01-02-2025	
11.	Member, IDP and Ranking Cell	MJPRU	12-09-2023	Till date
12.	Member- IQAC/NAAC (team)-2022/ 2024	IQAC/NAAC TEAM, 2022, MJPRU	23-07-2022	Till date
13.	Member, Convocation Committee-2023, 2024	MJPRU	November-2023, 2024	-
14.	Observer, B.Ed. Entrance Exam. 2023	MJPRU	12-06-2023	-
15.	Master Trainer, Road Safety, District Bareilly	Uttar Pradesh Sadak Suraksha Parishad	14-10-2022	Till date
16.	Parameter Coordinator, NIRF (Graduation Outcomes),	NIRF, IDP & Ranking Cell, MJPRU	24-11-2022	Till date
17.	Member- Academic Committee	FET, MJPRU	20-09-2022	Till date
18.	Member, Biometric Machine Installation & Registration, Committee	MJPRU	16-09-2022	Till date
19.	Coordinator, IT-Clinic	MJPRU	17-05-2022	Till date
20.	Member, Road Safety Club	Road Safety Club, MJPRU	17-05-2022	Till date
21.	University Representative, Lucknow District, B.Ed. Entrance Exam. 2022	B.Ed. Entrance Exam. 2022 by MJPRU	27-06-2022	-
22.	Member, BoS, Dept. of CSIT	MJPRU	26-03-2022	-

Responsibilities & Positions held with Past Employer (KEC, Dwarahat, Uttarakhand)

Sr. No.	Post	Organization	Duration	
			From	To
1.	Warden, Boys Hostel	K.E.C. Dwarahat, Almora, Uttarakhand	Jan. 2007	Aug. 2008
2.	Incharge, Internet Lab.	K.E.C. Dwarahat, Almora, Uttarakhand	Jan. 2007	Aug. 2008
3.	Incharge, Oracle Lab.	K.E.C. Dwarahat, Almora, Uttarakhand	Jan. 2007	Aug. 2008
4.	Officer Incharge, Student Welfare	K.E.C. Dwarahat, Almora, Uttarakhand	Jan. 2007	Aug. 2008
5.	Asstt. Officer Incharge, EPABX	K.E.C. Dwarahat, Almora, Uttarakhand	Jan. 2007	Aug. 2008
6.	Sector Magistrate (R) State-Panchayat level elections-2008 in Almora District, Uttarakhand	K.E.C. Dwarahat, Almora, Uttarakhand	2008	

(i) Seminar/Conference Presentations=22

	(Recent)
	<ol style="list-style-type: none"> 1. Anil Kumar Bisht, et al. "Predicting Air Quality Index (AQI) with Machine Learning: A Holistic Analysis of PM2.5 and Time-Series Forecasting", 9th International Conference on Information and Communication Technology for Intelligent Systems, Bangkok – Thailand, April 4 - 6, 2025 (SPRINGER) 2. A. Agrawal, at. al., "Crop Yield Prediction Based on Machine Learning:State of the Art", <u>International conference</u> on Advances in Computing (ICAC-2024), 24th Feb-2024, organized by department of CSE, SRMS, CET, Bareilly, U.P. 3. A.Agrawal at al., "Crop Yield Prediction Based on Machine Learning", <u>International Conference</u> on Emerging Trends in STEM and Healt-Agri Sciences for sustainable Development, 11-12, March, 2024, organized by MIET Kumaon in collaboration with dept. of higher education Utrakhand Govt. & Utrakhand Science Education & Research Centre (USERC). 4. R.Ghai, et al., "Utilizing Artificial Intelligence for Renewable Energy Systems: A Comprehensive Review", 38th <u>National Convention</u> of Production Engineers and National Conference on Green and Bio-Inspired Manufacturing-The Way Forward" University organized by The Institution of Engineers (India), IEI, Bareilly Local Chapter.on 2-3 May, 2024 at M.J.P. Rohilkhand. 5. Agarwal, U., et al. Blockchain-Enabled Secure Identity Verification in Agri-Food Supply Chain. In: Tomar, A., Mishra, S., Sood, Y.R., Kumar, P. (eds) Proceedings of 4th International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication. MARC 2023. Lecture Notes in Electrical Engineering, vol 1232. Springer, Singapore. https://doi.org/10.1007/978-981-97-5231-7_12, pp 135-145.
	(j) Memberships of Academic/Professional Bodies
	<ol style="list-style-type: none"> 1. Life Time Member (CSI) Computer Society of India. (Membership Number: 01122928) 2. Member All India Council for Technical Skill Development (Member ID: AICTSD/PROFESSOR/29948). 3. Member International Association of Hydrological Sciences (IAHS)- (Membership No.18320)
	(k) Participation in Community Service / Exchange Programme / Consulting Activity
	<ol style="list-style-type: none"> 1. Organized "Sadak Suraksha Jagrukta Rally" under the Sadak Suraksha Jagrukta Abhiyan of U.P. Govt. as a member of Road Safety Club, MJP Rohilkhand University on 21-05-2022. 2. Organized "Screening of Educational Films" in the department of CSIT on 08-09- 2022 on the occasion of "Shikshak Parv", NEP 2022. 3. Organized Plantation in the department of CSIT on 16-07-2022 on the occasion of Harela & SaavanUtsav. 4. Organized Quiz on "Road safety Rules, Regulations & Awareness" under the Sadak Suraksha Jagrukta Abhiyan of U.P. Govt. as a member of Road Safety Club, MJP Rohilkhand University on 20-07-2023. 5. Organized Career Counseling and PD talk on 18-05-2023 in the Dept. of CSIT. 6. Organized Essay Writing Competition on "Road Safety Rules and Regulations" on 18-01-2023 in the department of CSIT.

(l) International Academic Exposure					
✓	Presented paper “ Predicting Air Quality Index (AQI) with Machine Learning: A Holistic Analysis of PM2.5 and Time-Series Forecasting”, in the 9th International Conference on Information and Communication Technology for Intelligent Systems, Bangkok – Thailand, April 4 - 6, 2025 ((SPRINGER).				
	Acted as Session Chair in the 9th International Conference on Information and Communication Technology for Intelligent Systems, Bangkok – Thailand, April 4 - 6, 2025 ((SPRINGER)				
	Awarded with Certificate of Appreciation for successfully participating as a Deligate in IMUN Online Conference 26.0 during 10 th to 11 th Oct. 2020 from International Model United Nations, Australian Embassy .				
	Awarded “Certificate of Appreciation”, for the IEEE 3rd International Conference on “Advances in Computing, Communication Engineering (ICACCE 2016), 28 th -29 th November, 2016, Durban, South Africa .				
	Invited as Speaker/Chair in International Congress of Environment from 15-17 June 2022 (Not Attended due to Pandemic) in Singapore .				
(m) Any Other Details					
✓	Patents: 09---- (8 National =Published+ 01 International=Granted)				
	S.No.	Name of the Patent awarded	Year of Published /Award	Year of award	International / National
	1.	Integrated IoT Solutions for Holistic Elderly Care: Continuous Vital signs Monitoring and Alerts in Human-Centric smart Homes 202411009784, Published on 16/02/2024	2024	Published	National
	2.	Integrated IoT based Sleep Pattern Analysis, Quality Monitoring and improvement System 202411009754, Published on 16/02/2024	2024	Published	National
	3.	A system for authentication of user during a DL Tracking, 201621043220	2024	Published	National
	4.	Intelligent Robotic Face, UK Design Patent, Design number: 6293401	2023	Granted Grant date: 08 July 2023	International
	5.	Early Detection Of Depression Using Ai And Mobile Device, (Ref. No. 202111058519)	2022	Published	National
	6.	Single Handed Sowing and Fertilizing Machine (Ref. No. 353142-001)	2022	Published	National
	7.	Uber Data Analysis And Quick Search Using Deep Learning ((Ref. No. 202111046134)	2021	Published	National
	8.	Bitcoin Price Prediction Using Machine Learning ((Ref. No. 202111046127)	2021	Published	National

9.	LPG Gas Leakage Detection Device (Voice Alert to the house wife) (Ref. No. 202131047261)	2021	Published	National
	<p>✓ Awarded by “Letter of Appreciation” by IIT-Roorkee upon completion of project: Development of Virtual Lab. of “Analysis & Design of Algorithm” in B.Tech. Course as Faculty Incharge, (An Initiative of MHRD, Govt. of India, under the National Mission on Education through ICT) with MJPRU as Nodal Center of Virtual Labs. in collaboration with IIT- Roorkee.</p> <p>✓ B.Tech. final year students project titled “Application of Machine Learning for Assessment and Prediction of Nomophobia: Smart phone Addiction among Engineering Students” by Sakshi Agarwal. Saurabh Kumar, Salini Gupta, under the guidance of Dr. Anil Kumar Bisht is selected by Council of Science & Technology, UP Govt. under Engineering Students project grant scheme 2023-23.</p> <p>✓ Acted as Session Chair in the 9th International Conference on Information and Communication Technology for Intelligent Systems, Bangkok – Thailand, April 4 - 6, 2025 ((SPRINGER)</p> <p>✓ Invited as Chair, Technical Session in an International Conference on “Contemporary Research on Mathematics and Computer Science” (ICCRMCS-2022) held during 29-30 April, 2022 at Sri Ram Murti Smarak College of Engg. & Technology, Bareilly, U.P.</p> <p>✓ Invited as Chair, Technical Session in an International Conference on “Advanced Computing Technologies and Applications held during 17-18, April, 2025 at Invertis University, Bareilly, U.P.</p> <p>✓ Contributed actively as Co-Coordinator in preparing the Policy Draft of Grass Root Innovation Centre (GRIC) Approved by EC: Executive Council held in December 2020.</p> <p>✓ Acted as Judge in Divisional Level “Science Model Competition 2023” held on 17th March 2023 organized by Department of Science & Technology, U.P. Govt. with council of Science and Technology, U.P. at GIC Bareilly.</p> <p>✓ Completed Online Certification course on “Machine Learning” conducted by E & ICT Academy, IIT Kanpur, Ministry of Electronics & IT, Govt. of India in April, 2018.</p> <p>✓ Developed total 45 e-contents for Uttar Pradesh Higher Education Digital Library e-platform in the ppt format for B.Tech. CS&IT on the subject Discrete Mathematical Structure and Online student learning portal of MJPRU.</p> <p>✓ Short Term Courses / Faculty Development Programme / Workshops Attended (One Week/Two Weeks): 33</p> <p>✓ Short Term Courses / Faculty Development Programme / Training Program/ Workshops Attended: (Less than a week): 10</p> <p>✓ Orientation Program: 01</p> <p>✓ Refresher Course: 01</p>			


 (Dr. Anil Kumar Bisht)