

RKDF University, Bhopal
Faculty Profile



Basic Information				
Name	Dr. Sunil Patil			
Date of Birth	12-11-75			
Designation	Professor			
Department	Computer Science and Engineering			
Experience	23 yrs			
Email ID	spatilrkdf@gmail.com			
Contact No	9977700545			
Educational Qualifications				
Description	Year	%	Institute/University	
(UG)- B. Sc.	1997	67.5%	Barkatullah University, Bhopal	
(PG)- 1. MCA	2001	70.5%	RGPV, Bhopal (M.P.)	
2. M. Tech. (IT) Part Time	2009	67.7%	Barkatullah University, Bhopal	
M. Phil.				
(Ph. D.)- Computer Science and Engineering	2018		RKDF University, Bhopal (M.P.)	
Post Doctorate	-	-	-	
NET Qualified/GATE	-	-	-	
Experience Detail				
Experience (Teaching/Research)	Designation	Duration		Name of Institute/University
		From	To	
Teaching	Lecturer	01 Feb 2002	28 Feb 2007	RKDF Institute of Science & Technology (MCA), Misrod, Bhopal
Teaching	Assistant Professor	01 Mar 2007	31 Mar 2009	RKDF Institute of Science & Technology (MCA), Misrod, Bhopal
Teaching	Assistant Professor	01 Apr 2009	31 Dec 2010	Department of MCA, Sri Satya Sai College of

				Engineering, Bhopal
Teaching and Research	Associate Professor	01 Jan 2011	18 Nov 2024	Department of Information Technology, Veda Institute of Technology, Bhopal
Teaching and Research	Professor	19 Nov 2024	Till Date	Department of Computer Science & Engineering and Information Technology, Veda Institute of Technology, Bhopal

Publications

No. of Papers Published	26
No. of Books Published	01
Books Chapters Published	02
No. of Patents Published/Grant	03 (Published)

Ph. D/M. Phil Project supervised

Research Program	Award	Under Supervision	Name of University
Ph. D (Provide detail i.e. name, title etc)	06	08	RKDF University, Bhopal
M. Phil			
PG Thesis/Dissertation	07	07	RGPV/ RKDF University, Bhopal
PG Projects	38 (Major)	38 (Major)	RGPV, Bhopal
	45 (Minor)	45 (Minor)	RGPV, Bhopal

Area of Expertise (100 words)

My expertise spans across teaching, administrative duties, and in-depth research. Notably, my technical skills are concentrated within the areas of Networking, Internet of Things (IoT), and foundational programming languages such as C and C++, D2K, Oracle, Python, PHP, HTML, Visual Studio (ASP .Net). Furthermore, I possess a comprehensive understanding of Relational Database Management Systems (RDBMS) and Networking. Such combination of

practical and theoretical knowledge allows me to effectively contribute to both academic and applied technological fields.		
Award and Achievement		
Name of Award	Description (With certified of Copy award)	
National		
International		
Conference/Seminar/Workshops/FDP		
Description	No.	
Conference/Seminar p a p e r presentation	09 Presented	
Conference/Seminar attended/ organized	17 (Attended)	
Work shop attended/ organized	07 (Attended) / 01 (Organised)	
FDP Attended/ organized	05 (Attended and Completed)	
Research Project		
Name of Project	Funding Agencies	Amount

- **Any other Achievement**

- I went to attend and completed 02 Vocational training of two month's each.
- I have Life Time membership for CSI (Computer Society of India) and ISTE (The Indian Society for Technical Education) with Membership ID as 3022110384 and LM61746 respectively.
- I Stood 4th rank in Pre-MCA entrance test.
 - I had been appointed as Executive Council Member of Barkatullah University by Hon'ble Governor of Madhya Pradesh.
- I had been member in various committees of RKDF University, Bhopal such as Governing Board, Academic Council, and IQAC etc.
- I actively participated in Inspection work of various statutory regulatory concerned to University along with documentation of same.
- I had been appointed as invigilator and member of Examination cell for RGPV examination.
- I had been appointed as External Viva/Voce Examiner and Valuer for RGPV Bhopal, BU Bhopal, Geetanjali (Autonomous) Bhopal and MCU, Bhopal.

List of Publications

1. Fatiha Qudrat, Dr. Sunil Patil, “Enhanced Adaptive Over-Segmentation Technique for Image Forgery Detection under Noise Attacks”, Oct 23, International Journal of Computer Science and Mobile Computing (IJCSMC), Vol 12(10), pp 34-44 (DOI.org/10.47760/ijcsmc.2023.v12i10.004) (Impact Factor 7.056).
2. Safdar Sardar Khan, Sunil Patil, “Advancements in Predictive Modeling of Alzheimer's disease: A Machine Learning Approach Integrating Biomarkers and Neuroimaging Data”, 23 Jan 2023, SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, Vol 15(1), pp 186-191 (doi.org/10.18090/samriddhi.v15i01.33).
3. Gangan Kumar Sharma, Sunil Patil, “Big Data Analysis for Revenue and Sales Predication Using Support Vector Regression with Auto-regressive Integrated Moving Average”, 14 Jan 2023, SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, Vol 15(01) pp 1-8 (doi.org/10.18090/samriddhi.v15i01.01).
4. Safdar Sardar Khan, Sunil Patil, “A Comparison of Machine Learning Algorithms for Alzheimer's Disease Prediction”, 30 Dec 2022, SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, Vol 14(04), pp 170-176 (DOI: 10.18090/samriddhi.v14i04.28)
5. Gagan Sharma, Sunil Patil, “Extreme Gradient Boosting Model-based Forecasting of Big Data Online Sales Record”, 25 Mar 2022, SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology Vol 14 No.1, pp 112-119 (DOI <https://doi.org/10.18090/samriddhi.v14i01.18>)
6. Verma Preeti, Patil Sunil, “Machine Learning for Cloud Cover Detection Using Multispectral Satellite Images.”, Published 31 Jan 2022, Issue date Dec 2023, Annals of Data Science, Springer, Vol 10, pp 1543-1557 (<https://doi.org/10.1007/s40745-021-00367-4>)
7. Preeti Verma, Sunil Patil, “A Machine Learning Approach and Methodology for Solar Radiation Assessment Using Multispectral Satellite Images”, Published 18 Aug 2021, Issue date Aug 2023, Annals of Data Science, Springer, Vol. 10(4), pp 907-932 (<https://doi.org/10.1007/s40745-021-00352-x>)
8. Manish Kumar Sahu, Sunil Patil, “Linear Regression based Power Optimization of Wireless Sensor Network in Smart City”, 18 Mar 2021, IOP Conference Series: Materials Science and Engineering, AICERA 2020 (held between 14-16 Dec 2020, Amal Jyothi College of Engineering, Kanjirapally, Kerala) IOP Publishing, Vol 1085 (1), (DOI 10.1088/1757-899X/1085/1/012005)
9. Sunil Patil, Manish Kumar Sahu, “Enhanced Double Cluster Head Selection using Ant-Colony optimization for Energy-efficient Routing in Wireless Sensor Network”, SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, 30 Jun 2021, Vol 13 No.01, pp. 35-41 (DOI <https://doi.org/10.18090 /samriddhi.v13i01.7>)
10. Sharad Gangele, Kirti Soni, Sunil Patil, “Data mining approach towards students behavior assessment methods for higher studies”, Nov 2018, International Journal of Computer Applications (0975 - 8887), Vol - 181 (30), pp 11-14. (DOI:10.5120/ijca2018918099)
11. Sharad Gangele, Sunil Patil, D. Shukla, “A Novel way for area computation of browser sharing phenomena through implementation of simpson's 1/3 method”, International Journal of Advanced Computer Technology, 2017, vol.–6, no.–5, pp. 2347–2354
12. Sunil Patil, Sharad Gangele, “Markov model for Internet traffic sharing analysis with unique conception of rest state in multi–market environment”, International Journal of Scientific Research in Science, Engineering & Technology (IJSRSET), 2016, vol.– 2, no.–2, pp. 1356–1368 (DOI : 10.32628/IJSRSET1738144) (Impact Factor 3.632).
13. Sunil Patil, Sharad Gangele, “Stochastic model for Internet mobile data traffic sharing analysis in dual SIM environment”, International Journal of Scientific Research in Science, Engineering & Technology (IJSRST), 2016, vol.–2, no.–5, pp. 355–360. (DOI : 10.32628/IJSRST1738133)

14. Dr Sharad Gangele, Sunil Patil, Dr. K Mani Kandhan Nair, “Internet Mobile Data Traffic Share Analysis in Case of Dual sim Environment”, International Journal of Engineering Trends and Technology, Nov 2016, Vol. 41 (6), pp – 290-295 (DOI:10.14445/22315381/IJETT-V41P254)
15. Sharad Gangele, Sunil Patil, “Two-call and rest state based internet traffic sharing analysis in two market environment”, Int J Eng Sci Technol, 2016, Vol 6 (6), pp- 07-17
16. Sunil Patil, Sharad Gangele, “Internet traffic distribution analysis in case of multi-operator and multi-market environment of computer network”, International Journal of Computer Applications (IJCA), Nov 2015, vol.–130, no.–4, pp. 29–36 (DOI:10.5120/ijca2015906861)
17. Sunil Patil Rishi Yadav. A Hybrid Model for Enhanced Detection of Microbial Diseases in Rice Plants Using ResNet50 and Vision LSTM. Journal of Information Systems Engineering and Management. 2025;10(36s): 675-685.
18. Sunil Patil, Pallavi Suryavanshi. Fine-Tuning BERT and ALBERT for Sentiment Analysis in Brand Reputation Monitoring Using Amazon Data. International Journal of Emerging Technology and Advanced Engineering. 2025; 15(5): 27-32.
19. Sunil Patil Vishal Shrivastava. An Energy Efficient Secure Framework For Optimal Hub Placement And Data Transmission Task Offloading Using DRL In Mobile-IOT. Nanotechnology Perceptions. 2025;20(8): 55-76.
20. Sunil Patil Pallavi Suryavanshi. An Overview of Textual Sentiment Analysis and Emotion Recognition. International Journal of Scientific Research and Engineering Trends. 2024; 10(6): 3179-3183.

List of Workshops & Seminars Conducted / Attended as Resource Person :

1. Received appreciation certificate as Resource Person for three month Workshop on “Python Machine Learning and Data Science” conducted from 10 Jan to 8 Apr 2022 at Incubation Centre, RKDF University, Bhopal.
2. Participated
3. Organized and conducted as Convener a one day **Workshop on LINUX** at R.K.D.F. Institute of Science and Technology, Bhopal, Jun 2005.
4. Participated 02 days NAAC sponsored a National Workshop on “Quality Issues in Higher Education Policies in Context of Self Finance Institutions” from 19 Jun to 20 Jun 2015 at Christian Eminent College, Indore.
5. Participated one day Seminar on “Human Values and Professional Ethics” on 17 Mar 2012 at RKDF University, Bhopal.
6. Participated one day Seminar on “Management Education, Trends & Practices” on 23 Feb 2012 at RKDF University, Bhopal.
7. Participated one day Seminar on “Entrepreneurship Development & its linkage with IGNOU” on 24 Feb 2012 at RKDF University, Bhopal.
8. Participated in 02 days a National Seminar on “ Advancement in Electronics and Communication Technology with special theme on Nano Technology” from 02 Dec to 03 Dec 2007 at Scope College of Engineering, Bhopal.
1. Participated 3 days conference i.e. 2nd IEEE International conference on Computer Communication and Control (IC4-2024) held on 08-10 Feb 2024 at Medi-Caps University, Bhopal.
2. Safdar Sardar Khan, Sunil Patil, “Development of Machine Learning Model for Detection and Diagnosis of Alzheimer's disease. A Comprehensive Review”, 2023 IEEE International Conference on ICT in Business Industry & Government (ICTBIG), 08-09 Dec 2023, Indore, Bhopal (DOI:10.1109/ICTBIG59752.2023.10455973), added to IEEE Xplore 19 Mar 2024.
3. Safdar Sardar Khan, Sunil Patil, “Deep Learning-Based System for Individualized Recommendations”, 3rd International Conference on Data Science and Big Data Analytics, Springer Nature Singapore (IDBA- ACMWIR 2023), held between 16-17 Jun 2023 at Sri Aurobindo Inst. Of Tech., Indore, published on 17 Mar 2024, pp 621-631 (doi.org/10.1007/978-981-99-9179-2_46).
4. S. Gangele, S. Patil, D. Shukla, “An application of Markov chain model for Internet traffic share analysis”, National Conference on Growth & Recent Trends in Information Technology (NCGRTIT–2017), 03 Nov 2017, SIRT, Bhopal (M.P.)
5. S. Gangele, S. Patil, D. Shukla, “An approach of area estimation towards browser sharing analysis by using numerical method”, National Conference on Computational Science (NCCS–2017), March–2017, Indore (M.P.)
6. S. Gangele, S. Patil, D. Shukla, “Application of numerical method for Internet traffic sharing”, National Conference – 2015, March–2015, Bhopal (M.P.)
7. Participated 2 days 3rd International Conference on “Recent Advances in Smart Innovative Ideas with Multidisciplinary Research” IC-RASIMR- 2019 organised in association with RFI & sponsored by World Federation of Science & Technology (WFST) from 30th Nov to 01st Dec 2019 at RKDF University, Bhopal
8. Gagan Sharma, Sunil Patil, “Big Data Business Analytics and Risk Assessment using Parallel support Vector Machine”, MPCST sponsored National Conference on “Contemporary Technological Solutions towards fulfillment of Social Needs”, 03 – 04 Mar 2023, RKDF University, Bhopal.
9. Sunil Patil, “Improvement of customers, Reviews Analysis methods of E-commerce service quality and product recommendation”, MPCST sponsored National Conference on “Contemporary Technological Solutions towards fulfillment of Social Needs”, 03 – 04 Mar 2023, RKDF University, Bhopal.

10. Sunil Patil, “Deep reinforcement learning for distributed dynamic resource allocation in Industrial Internet of Things”, MPCST sponsored National Conference on “Contemporary Technological Solutions towards fulfillment of Social Needs”, 03 – 04 Mar 2023, RKDF University, Bhopal.
 11. Preeti Verma, Sunil Patil, “Artificial Neural Network approach for Solar Radiation estimation using Image of Multi Spectral satellite”, 2nd International Conference on “Recent Trends in Renewable Energy and Sustainable Global Development” under TEQIP – III, CSVTU, Bhilai & JNTU, Hyderabad and Chhatisgarh council of Science & Technology, Raipur, 30 – 31 Jan 2020 at BIT, Raipur, CG.
 12. Participated 2 days 2nd International Conference on “Contemporary Technological Solutions towards fulfillment of Social Needs”, from 28 Sep to 29 Sep 2019 at RKDF University, Bhopal.
 13. Participated 2 days EPCO, Bhopal sponsored Seminar on “Climate Change: Mitigation Strategies in Agriculture & Energy Sectors” from 19 Dec to 20 Dec 2017 at RKDF University, Bhopal.
 14. Participated 2 days 1st International Conference on Data, Engineering and Applications 2017 (IDEA-2K17) jointly organised by RGPV, Bhopal & SIRT, Bhopal from 28 Oct – 29 Oct 2017.
 15. Sunil Patil, Sharad Gangele, “An Approach of Area Estimation towards Browser sharing Analysis by using Numerical Method”, National Conference on Computational Sciences (NCCS – 2017) from 30 Mar to 31 Mar 2017 at Govt. Holkar (Model Autonomous) Science College, Indore.
 16. Participated in MPCST sponsored Conference on “Sustainable Development of India through Health Care & Education (Institution Health Education Mission) jointly organised by RKDF University and Aarogya Bharti, M. P. on 24 Aug 2017 at Faculty of Science, RKDF University, Bhopal.
 17. Sunil Patil, Sharad Gangele, “Application of Numerical method for Internet Traffic Sharing”, National Conference – 2015 on 14 Mar 2015 at LNCT- MCA, Bhopal.
 18. Participated 02 days MPCST sponsored International Conference on Emerging Knowledge in Clinical Genetics and Genomic Medicine, from 17 Dec to 18 Dec 2014 at Department of Biotechnology, RKDF University, Bhopal.
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Books or contribution in Chapter:

1. Vivek Bhardwaj, Safdar Sardar Khan, Gurpreet Singh, Sunil Patil, Devendra Kuril, Sarthak Nahar, "Chapter 32 - Risks for Conversational AI Security", Feb 2024, Book: Conversational Artificial Intelligence, Publisher- John Wiley & Sons, Inc., pp 557-587 (DOI.org/10.1002/9781394200801.ch32).
2. Ankush Ayachit, Jhanvee Sharma, Bhupendra Panchal, Sunil Patil, Safdar Sardar Khan, Rijvan Beg "Chapter 25 - Quantum Computing Anomalies in Communication.", Oct 2023, Book: Quantum Computing in Cybersecurity, Publisher John Willey and Sons Inc, pp 425-439 (DOI.org/10.1002/9781394167401.ch25).

Patents:

1. Registration of Design on published on 13/09/2024 for "IOT Based Voice Assisted Devie for Indoor Navigation and Positioning", jointly with Dr. Rashmi Pandey, Dr. Ashok Kumar Shankwar, Dr. Ratnesh Kumar Jain and Dr. Kuldeep Pandey (Design No.:- 425497-001)
2. Published on 09/09/2022 for "An Intelligent resource management techniques for use at home-an eco-friendly approach", jointly with Dr. Ravi Singh Pippal, Dr. Rajesh Kumar Sharma, Dr. Puneet Dwivedi, Dr. Suchi Gangwar, Dr. Shiv Singh Basediya, Vishal Shrivastava (Application No.:- 202121061606)
3. Published on 28/01/2022 for "A System and Method of Autocon-IOT Online Conformance Testing for IOT Applications" jointly with Prof. Nagraj V, Dr. Rajesh Kumar Sharma, Prof. Manish Kumar Sahu, Prof. Gagan Sharma, Dr. R Umamaheswari, Dr. I Shanmugapriya, Dr. S Naganandini, Prof. B Thirumoorthi, Dr. R Indumathy. (Application No.:- 202241001785)