



**Dr. Diwakar R. Tripathi**

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## Awards in Computer Science

- *International Lifetime Achievement Award*
- *Outstanding Scientist Award*
- *Young Scientist Award*
- *Outstanding Coordinator Award (MH. Gov.)*
- *Best Innovation Award*
- *Bharat-Nepal Shiksha Vibhushan Award-2024*

# Dr. Diwakar R. Tripathi

## HOD of Computer Science

Diwakar Ramanuj Tripathi acquired Bachelor of Computer Science (**B.Sc. C/S**) from R.T.M. Nagpur University in 2009 along with Diploma in Hardware & Networking and Master of Computer Application (**MCA**) from Sikkim Manipal University of Health Medical & Technological Sciences, in 2012 along with Software Engineering (**GNIIT**). I have been awarded Ph.D. Computer Science by Kalinga University, Raipur in 2018.

I have more than 14 years of experience in Information Technology domain. I have started my I.T. profession in year 2009 and presently working as an Head of Computer Science Department & Controller of examiner at S.S. Maniar College of computer & Management Nagpur, Maharashtra, India.

I have Hands-on Consulting, Training and management in the Information Technologies domain. Mastery in capability enhancement, enterprise analysis, business & IT security analysis. I have published more than 20 research articles in various International, National conferences and journals indexed with Scopus and listed in UGC approved journals. I have more than 10 national & International patent granted and 11 copyright registered. I have been awarded the fellow membership of various professional bodies: Institute of Research engineers and doctors (**IRED**), New York, USA; International scientific research organization for science, engineering and technology (**ISROSET**); Indian Academicians and Researchers Association (**IARA**); Scholars Academic and Scientific Society (**SAS Society**).

I am pro-actively involved with professional associations and associated with various professional bodies.

**IEI; IACSIT**, Singapore; **CSI; ISTE; IAENG**, Hong Kong; **IEEE; ASDF** UK; **CSTA; ACM, SDIWC**, USA; **IFERP; AIMA; ISCA;**

## Skills

Integrity ★★★★★

Polite ★★★★★

Communication ★★★★★

Leadership ★★★★★

## Personal Skills



## Languages

English ★★★★★

Hindi ★★★★★

Marathi ★★★★★

## Contact Details professional Links

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### Website:

<https://www.itprofessional.org.in>

### ORCID ID:

<https://orcid.org/0000-0003-3786-0736>

### Vidwan ID:

<https://vidwan.inflibnet.ac.in/profile/105751>

### Google Scholar:

<https://scholar.google.com/citations?user=ynafPOcAAAAJ&hl=en>

### Research Gate:

<https://www.researchgate.net/profile/Dr-Diwakar-Tripathi>

### Scopus ID:

<https://www.scopus.com/authid/detail.uri?authorId=58067730600>

## Experience

Aug 2022- till date

Ph.D. Guide,  
R.T.M. Nagpur University

Oct 2024- till date

IPR Attorney,  
Government of India

April 2026- till date

Professor, MCA  
Tulsiramji Gaikwad-Patil College of Engineering & Technology

### Work Profile:

1. University approved **Ph.D. Guide** for **computer science**
2. Handling all administration work of MCA
3. Chief Editor for college magazine.
4. R & D Dean for MCA department.
5. Provide teaching to MCA students.
6. Worked as an internal examiner for UG/PG practical's Examination of university at our college.
7. Worked as an External and internal examiner, paper valuer and paper setter for UG/PG examination of Nagpur university.

## Experience...

Aug 2021- till date

**Assistant Professor and HOD CS,**  
Training & Placement Officer, COE

**S.S. Maniar College of Computer & Management**

*Work Profile:*

### **Academic:**

- Teaching UG & PG students, Conducting conferences, seminar, workshop and FDP's.
- Being an R.T.M. Nagpur University Approved PG teacher & Ph.D. Guide, providing project thesis/dissertation guidance to PG & Ph.D. students.
- Worked as an Internal & External Examiner, Paper setter, Moderator and member of local experts committee at R.T.M Nagpur University.

### **Administrative:**

- In-Charge of university Examinations and college internal examinations at college.
- In-Charge of Training & Placement cell.
- In-Charge of Incubation Cell and Model skill development centre.
- Member of Internal Quality assurance cell (IQAC) & CDC.
- Nodal officer of Pradhan Mantri Kaushal Vikas Yojna (Skill India).

Jan 2025- June 2025

**Asso. Professor,**  
**Chief Coordinator BBA /BCA**

**Tulsiramji Gaikwad-Patil College of Engineering & Technology**

*Work Profile:*

1. University approved **Ph.D. Guide** for **computer science**
2. Handling all administration work of BBA & BCA as a chief coordinator.
3. Chief Editor for college magazine.
4. R & D Dean for MCA department.
5. Provide teaching to MCA students.
6. Worked as an internal examiner for UG/PG practical's Examination of university at our college.
7. Worked as an External and internal examiner, paper valuer and paper setter for UG/PG examination of Nagpur university.

## Experience...

Jan 2022- Dec 2023

Java Ventures International Pvt. Ltd  
(Java R&D Pvt. Ltd)  
Senior Process Coordinator

### *Work Profile:*

- Coordinating and managing end-to-end process workflows to ensure timely and accurate task execution.
- Collaborating with cross-functional teams including operations, quality assurance, and management to improve process efficiency.
- Monitoring KPIs and preparing daily/weekly/monthly reports for performance tracking.
- Identifying bottlenecks in processes and recommending corrective and preventive actions.
- Training and mentoring junior process coordinators and new team members.
- Acting as a point of contact for internal stakeholders regarding process issues and escalations.
- Ensuring compliance with company policies, client requirements, and regulatory standards.
- Leading continuous improvement initiatives using Lean/Six Sigma methodologies where applicable.

Aug 2011- July 2021

**Dinshaw's Dairy Foods Ltd.**  
**Asst. Manager IT**

### *Work Profile:*

1. Lead team of IT professionals for providing technological support to 2000+ employees.
2. Designed and developed software using SQL & Oracle11g as a backend and C# .NET & ASP.Net as a frontend to support payroll, HR, Asset, Crate, Production and procurement management, Ticketing system, BDN, Bar Code Printing, GST Tool, Performance appraisal, talent and performance management applications through system driven approach.

## Experience...

3. Designed & maintained website for the organization & its NGO using PHP & MySQL.
4. Controlling and managing the IT department's resources and Budget.
5. Overseeing the work of Software Developers, IT Officers, and Hardware & Network Engineers.
6. Serving as the primary point of contact between the IT department and other areas of the company.
7. Carrying out regular site visits to regional offices to check that IT needs is being met.
8. Making decisions on how best to drive IT growth and improvements.
9. Developing key performance indicators to track the effectiveness of IT services within the company and then regularly reporting on these to leadership figures.
10. Responding appropriately to emergencies or urgent issues as they occur.
11. Completing IT general audits to ensure standards meet compliance criteria.
12. Contacting managers across all locations in a region, to understand their requirements and support needs.
13. Leading teams of IT specialists on major projects from start to completion.
14. Developing positive relationships with IT suppliers and third party partners.
15. Being a senior escalation point for and Service Delivery or IT issues.
16. Reporting and acting upon all and any IT security breaches.
17. Ensuring the security of data, network access and backup systems.

## Education

### Bachelor of Law (LL.B.)

R.T.M. Nagpur University, 2021, Division: -First

### Doctor of Philosophy (Ph.D.) in Computer Science

Kalinga University, Raipur, 2018

### Master of Computer Application (MCA)

Sikkim Manipal University of Health Medical & Technological Sciences, 2012, Division: -First

### Software Engineering (GNIIT)

NIIT Ltd., 2012 Division: -First

### Master of Business Administration (MBA)

IIBM Institute of Business Management, 2011 Division:- First

### Diploma in Computer Hardware & Networking

R.T.M. Nagpur University, 2009, Division: -First

### Bachelor of Computer Science (B.Sc. C/S)

R.T.M. Nagpur University, 2009, Division: - Second

## Publications & Certifications

### Seminar

National= 3

### Webinar

National= 11

### Patent

National= 08 International= 05

### Copyright

Registered = 16

### FIP/FDP

06

### Refresher

06

### Journals

International = 38 (UGC =31, SCOPUS = 7)

### Conferences

International = 3

### Awards

**National = 08**

**International = 07**



## Technical Skills

- ❖ **Operating Systems** : WIN XP/Vista/Win.7/Win.8/Win10.
- ❖ **Application Programs** : MS Office, Tally.ERP 9 ,Tally Server 9
- ❖ **Application Development** : Visual C# .Net, Visual Basic .Net, ASP.Net, Visual Basic 6.0, WPF and Silver light
- ❖ **Programming Languages** : C, C++, C#
- ❖ **Additional Languages** : XML, UML and HTML.
- ❖ **Databases** : Querying and Managing Data Using MS Access, MY SQL, SQL Server & Oracle
- ❖ **Security Devices** : Cyberoam, Sophos.
- ❖ **Specialization** : Cloud Computing & Virtualization, Database Management System, Cyber & Network Securities, HRMS & Administration.

## Certifications

- IIBM Institute of Business Management Certified **SIX SIGMA GREEN BELT PROFESSIONAL** with “A” Grade in July 2010
- IIBM Institute of Business Management Certified **PROJECT MANAGEMENT CERTIFICATION** with “A” Grade in July 2010
- IIBM Institute of Business Management Certified **ENTERPRISE RESOURCE PLANNING PROFESSIONAL** with “A+” Grade in December 2010
- Certificate in **HACKING & CYBER SECURITY** From data64 Techno Solution Pvt. Ltd.
- Certificate in **CYBER LAWS** from Asian School of Cyber Laws.
- Certificate in **INTELLECTUAL PROPERTY RIGHTS** from Asian School of Cyber Laws.
- Certificate in **ECOMMERCE LAWS** from Asian School of Cyber Laws.



**Skill India**  
कौशल भारत - कुशल भारत

## Professional Recognition & Achievements

**Fellow Member** of *Institute of Research engineers and doctors (IRED)*, New York, USA.

**Associate Member Technologist** of *the Institute of Engineers India (IEI)*

**Senior Member** of *International Association of Computer Science and Information Technology (IACSIT)*, Singapore

**Fellow Member** of *International scientific research organization for science, engineering and technology (ISROSET)*

**Fellow Member** of *Indian Academicians and Researchers Association (IARA)*

**Fellow Member** of *Scholars Academic and Scientific Society (SAS Society)*

Member of **Center of Excellence** Committee of *Government of Maharashtra and MITSC.*

Member of **Editorial Board** Committee of *Government of Maharashtra and MITSC.*

**Professional Ambassador** of *Institute for Engineering Research and Publication (IFERP)*

**Certified Master Trainer** of *Indian Institutes of Science Education and Research (IISER).*

**Skill India Certified Trainer(TOT)** of government of India.

## Professional Recognition & Achievements...

### Editorial Board Member of:

Indian Journal of Data Communication and Networking (*IJDCN*)

International Journal of Recent Technology and Engineering (*IJRTE*)

International Journal of Engineering and Advanced  
Technology (*IJEAT*)

International Journal of Recent Technology and Engineering (*IJRTE*)

International Journal of Innovative Technology and Exploring  
Engineering (*IJITEE*)

International Journal of Soft Computing and Engineering (*IJSCE*)

International Journal of Innovative Science and Modern Engineering  
(*IJISME*)

International Journal of Inventive Engineering & Sciences (*IJIES*)

International Journal of Emerging Science and Engineering (*IJESE*)

International Journal of Advanced Engineering and Nano  
Technology (*IJAENT*)

International Journal of Basic Sciences and Applied Computing  
(*IJBASAC*)

International Journal of Management and Humanities (*IJMH*)

Indian Journal of Data Communication and Networking (*IJDCN*)



## Professional Membership

**Life Member of Computer Society of India (CSI)**



**Life Member of Indian Society of Technical Education (ISTE)**



**Life member of International Association of Engineers (IAENG), Hong Kong**



**Member of Institute of Electrical and Electronics engineers (IEEE)**



**Professional Member of Association of Scientist Developer and Faculties (ASDF) UK**



**Member Computer Science Teachers Association (CSTA)**



**Professional Membership of Association for Computing Machinery (ACM), New York, USA**



**Member of Society of Digital Information and Wireless Communication (SDIWC), USA**



**Professional Member of Institute for Engineering Research and Publication (IFERP)**



**Member of Institute of Electrical and Electronics engineers (IEEE) Young Professionals**



**Member of Institute of Electrical and Electronics engineers (IEEE) Computer Society**



**Member of Institute of Electrical and Electronics engineers (IEEE) Women in Engineering**



**Life Member of the Indian Science Congress Association (ISCA)**



**Professional Member of All India Management Association (AIMA)**

## National Seminars

1. Diwakar Ramanuj Tripathi, Presented paper in national seminar titled **“CLOUD HAZARD AND GOVERNANCE FRAMEWORK”** held on 12<sup>th</sup> March 2016 at 1402 & 1043, Babukhan estate, Basheerbagh, Hyderabad-500 001 in the Recognition of AIRO National Research Journal.
2. Diwakar Ramanuj Tripathi, Presented paper in seminar titled **“CLOUD COMPUTING TOWARDS GOVERNANCE FRAMEWORK SECURITY LIFECYCLE”** held on 20<sup>th</sup> August 2016 at 1402 & 1043, Babukhan Estate, Basheerbagh, Hyderabad-500 001 in the Recognition of AIRO National Research Journal.
3. Diwakar Ramanuj Tripathi, Presented a paper in seminar titled **“DATA SECURITY IN LOCAL NETWORK USING DISTRIBUTED FIREWALLS”** held on 27<sup>th</sup> October 2017 at N.R.E.C. College, Khurja (Affiliated to CCS University Meerut), Sponsored by University Grant Commission (UGC).

## National Webinars

1. **“Python Programming and Computer Vision”**, organized by *Department of Computer Science, Govt. Holkar Science College, Indore*, held from **25<sup>th</sup> to 26<sup>th</sup> May 2020**.
2. **“Knowledge Sharing on A to Z of Journal Publications (Survey to Citations)”** organized by *IFERP*, held on **30<sup>th</sup> May 2020**.
3. **“TECHNOLOGY & INNOVATION FOR ATMANIRBHAR BHARAT”**, organized by *Department of Computer Science Dev Sanskriti Vishwavidyalaya, Gayatrikunj - Shantikunj, Haridwar*, held on **08th June, 2020**.

## National Webinars...

4. **“Future Opportunities in Information Technology with reference to Covid-19”**, organized by *Department of Computer Science, Govt. Holkar Science College and ISROSET, Indore*, held from **15<sup>th</sup> - 16<sup>th</sup> June 2020**.
5. **“Research article writing and publications-Advance Concepts”** organized by *IFERP*, held from **01<sup>st</sup> to 05<sup>th</sup> August 2020**.
6. **“IP Challenges in Engineering, Science and Technology - Advanced Concepts”** organized by *IFERP*, held from **07<sup>th</sup> to 11<sup>th</sup> August 2020**.
7. **“Cyber Virus that took his path with Corona virus- A Disaster Journey of Malicious Malware in the ASEAN Countries”** organized by *IFERP and Telecommunications Consultants India Limited (TCIL)*, held on **15<sup>th</sup> August 2020**.
8. **“PhD End to End Assistance & Guidance”** organized by *IFERP*, held from **14<sup>th</sup> to 20<sup>th</sup> August 2020**.
9. **“Cognitive Radio-Wireless Sensor Networks- Applications & Challenges”** organized by *IFERP*, held on **19<sup>th</sup> September 2020**.
10. **“Optical Wireless Communication Challenges & Opportunities”** organized by *IFERP*, held on **03<sup>rd</sup> October 2020**.
11. **“Computing and Signal Processing in IOT Applications”** organized by *IFERP*, held on **09<sup>th</sup> October 2020**.

## Annexure-1

### Publications - International Journals

#### SCOPUS

1. Dr. Diwakar Ramanuj Tripathi. "**Artificial intelligence in software testing for emerging fields**", International Conference on Recent Advances in Technology & Management (ICRATM-2025), Conference Proceedings of Taylor & Francis Group, CRC Press eBook Published 26 May 2026, Chapter-11, eBook ISBN9781003768630.  
DOI: <https://doi.org/10.1201/9781003768630>
2. Dr. Diwakar Ramanuj Tripathi. "**Revolutionizing Business and Society: The Transformative Impacts of Data Science**", Vol. 20, S6 (2024): Green Technology Transfer and Society Needs for New Environmental Regulations, Nanotechnology Perceptions, Page No: 405–413, ISSN: 1660-6795, [www.nano-ntp.com](http://www.nano-ntp.com)  
DOI: <https://doi.org/10.62441/nano-ntp.vi.1023>
3. Dr. Diwakar Ramanuj Tripathi. "**Machine Learning for Fraud Detection: Comparative Analysis of Algorithms and Performance Evaluation**", Vol. 20, S6 (2024): Green Technology Transfer and Society Needs for New Environmental Regulations, Nanotechnology Perceptions, Page No: 395–404, ISSN: 1660-6795, [www.nano-ntp.com](http://www.nano-ntp.com)  
DOI: <https://doi.org/10.62441/nano-ntp.vi.1022>
4. Dr. Diwakar Ramanuj Tripathi, "**Ensuring Web Application Quality: The Role of Software Testing as a Form of Quality Assurance**," 2023 IEEE International Conference on ICT in Business Industry & Government (ICTBIG), Indore, India, 2023, Page No: 1-6,  
DOI: <https://doi.org/10.1109/ICTBIG59752.2023.10456277>
6. Dr. Diwakar Ramanuj Tripathi, "**Web User Profile Generation and Discovery Analysis using LSTM Architecture**," 2022 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS), Tashkent, Uzbekistan, 2022, Page No: 371-375,  
DOI: <https://doi.org/10.1109/ICTACS56270.2022.9988505>
7. Dr. Diwakar Ramanuj Tripathi, "**Malware Detection Classification using Recurrent Neural Network**," 2022 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS), Tashkent, Uzbekistan, 2022, Page No: 876-880,  
DOI: <https://doi.org/10.1109/ICTACS56270.2022.9988624>

9. Dr. Diwakar Ramanuj Tripathi, "**Data Obfuscation Technique for Security in Cloud Computing**", IJRTE-International Journal of Recent Technology and Engineering', ISSN: 2277-3878 (Online), Volume-8 Issue-5, January 2020. Page No. 4239-4244.  
DOI: <https://doi.org/10.35940/ijrte.E6720.018520>
10. Dr. Diwakar Ramanuj Tripathi, "**Methodological Research on Architecture of Cloud Service Models in Cloud Computing**", International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958 (Online), Volume-9 Issue-4, April 2020, Page No: 449-454.  
DOI: <https://doi.org/10.35940/ijeat.D6723.049420>

### **UGC / UGC - CARE**

1. Dr. Diwakar Ramanuj Tripathi, Dr. Shweta Shirpurkar, "**A Data Mining-Based Multimodal Biometric Authentication System for Secure Access Control**", *Anusandhanvallari, UGC CARE Listed (Group-I)*, vol. 2025, no. 1, pp. 4425-4430, Jan-2025.  
DOI: <https://doi.org/10.52783/anuval.1461>
2. Dr. Diwakar Ramanuj Tripathi, Dr. Ashwini Vikas Ghogare, "**Explainable Artificial Intelligence (XAI) Models for Transparent Decision-Making Systems**", *Anusandhanvallari, UGC CARE Listed (Group-I)*, vol. 2025, no. 1, pp. 4415-4424, Jan-2025.  
DOI: <https://doi.org/10.52783/anuval.1455>
3. Dr. Diwakar Ramanuj Tripathi, Chankshi Pravin Shrawankar, Dr. Vrushali Pramod Parkhi, "**BLOCKCHAIN-BASED SECURE FRAMEWORKS FOR INTERNET OF THINGS (IOT) APPLICATIONS**", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.12, Issue 3, Page No pp.431-441, September 2025,  
DOI - <https://doi.org/10.56975/ijrar.v12i3.320901>
4. Dr. Diwakar Ramanuj Tripathi, Komal Dilip Bangalkar, Dr. Vrushali Pramod Parkhi, "**DIGITAL TWINS WITH AI-DRIVEN PREDICTIVE ANALYTICS FOR SMART CITIES AND INDUSTRY 5.0**", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.12, Issue 3, Page No pp.442-453, September 2025  
DOI - <https://doi.org/10.56975/ijrar.v12i3.320902>
5. Dr. Diwakar Ramanuj Tripathi, Nikhil Ashok Pardhi, Dr. Vrushali Pramod Parkhi, "**EDGE COMPUTING FOR 6G NETWORKS: ENABLING ULTRA-LOW LATENCY**

**INTELLIGENT APPLICATIONS**", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.12, Issue 3, Page No pp.454-465, September 2025,  
DOI -<https://doi.org/10.56975/ijrar.v12i3.320903>

6. Dr. Diwakar Ramanuj Tripathi, Swati Ramdas Borkar, Dr. Vrushali Pramod Parkhi, "**Quantum Machine Learning: Bridging Quantum Computing and Artificial Intelligence for Next-Generation Problem Solving**", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.12, Issue 3, Page No pp.466-477, September 2025,  
DOI - <https://doi.org/10.56975/ijrar.v12i3.320904>
7. Dr. Diwakar Ramanuj Tripathi, Apeksha Shankar Urkude, Dr. Vrushali Pramod Parkhi. "**Explainable Artificial Intelligence (XAI): Interpretable Models for Ethical Decision-Making**", Volume 13, Issue IX, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 2056-2063, ISSN : 2321-9653  
DOI : <https://doi.org/10.22214/ijraset.2025.74356>
8. Dr. Diwakar Ramanuj Tripathi, Jatin Vitthal Waghe, Dr. Vrushali Pramod Parkhi. "**Federated Learning with Differential Privacy: Enhancing Security in Distributed AI Systems**", Volume 13, Issue IX, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 2064-2071, ISSN : 2321-9653, [www.ijraset.com](http://www.ijraset.com)  
DOI : <https://doi.org/10.22214/ijraset.2025.74357>
9. Dr. Diwakar Ramanuj Tripathi, Lavanya Ramesh Burde, Dr. Vrushali Pramod Parkhi. "**Generative AI Models for Synthetic Data Creation in Healthcare and Cybersecurity**", Volume 13, Issue IX, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 2072-2079, ISSN : 2321-9653,  
DOI : <https://doi.org/10.22214/ijraset.2025.74358>
10. Dr. Diwakar Ramanuj Tripathi, Prajwal Guniram Jagnade, Dr. Vrushali Pramod Parkhi. "**Neuromorphic Computing: Hardware-Inspired Architectures for Energy-Efficient AI**", Volume 13, Issue IX, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 2080-2087, ISSN : 2321-9653  
DOI : <https://doi.org/10.22214/ijraset.2025.74359>
11. Dr. Diwakar Ramanuj Tripathi, Hitesh Gautam Pillewan, Dr. Vrushali Pramod Parkhi. "**Analyzing User Experience Barriers within IoT-Integrated Smart**

*Environments*", Volume 13, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 364-369, ISSN : 2321-9653  
DOI : <https://doi.org/10.22214/ijraset.2025.74493>

12. Dr. Diwakar Ramanuj Tripathi, Aditi Achal Kumbhare , Bhupendra Ramrup Kushwaha ."**AI-Based Malware Detection and Classification for Wireless Networks**", Volume 12, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 290-298, ISSN : 2321-9653, Oct-2024  
DOI : <https://doi.org/10.22214/ijraset.2024.64512>
13. Dr. Diwakar Ramanuj Tripathi, Sufiyan Ahmad Ahmad , Arsalan Danish ."**IOT-Enabled Smart Healthcare: Developing Predictive Models for Chronic Disease Management Using Wearable Sensors**", Volume 12, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 299-306, ISSN : 2321-9653,  
DOI : <https://doi.org/10.22214/ijraset.2024.64513>
14. Dr. Diwakar Ramanuj Tripathi, Bharati Sitaram Kuthe ."**Optimizing IOT Network Performance: A Study on Low-Power Wide-Area Network (LPWAN) Technologies for Smart City Applications**", Volume 12, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 307-317, ISSN : 2321-9653,  
DOI : <https://doi.org/10.22214/ijraset.2024.64514>
15. Dr. Diwakar Ramanuj Tripathi, Dipali Ishwar Sarve , Shweta Rajesh Khobragade. "**Investigating the Impact of Cloud Computing on Environmental Sustainability**", Volume 12, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 318-325, ISSN : 2321-9653,  
DOI : <https://doi.org/10.22214/ijraset.2024.64515>
16. Dr. Diwakar Ramanuj Tripathi, Dipendra Munnalal Rahangdale , Hardik Jitendrakumar Patel. "**Cloud-Based Blockchain for Secure Data Sharing and Collaboration**", Volume 12, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 326-334, ISSN : 2321-9653,  
DOI : <https://doi.org/10.22214/ijraset.2024.64516>
17. Dr. Diwakar Ramanuj Tripathi, Harish Tikam Deshlahare , Roshan Ramdas Markhande. "**Edge-Cloud Continuum: Integrating Edge Computing and Cloud Computing for IOT Applications**", Volume 12, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 335-342, ISSN:2321-9653,

DOI : <https://doi.org/10.22214/ijraset.2024.64517>

18. Dr. Diwakar Ramanuj Tripathi, Mansi Mukesh Jain , Poonam Gajanan Kharche. "**Data Quality and Data Governance: Investigating the Impact on Data Science Outcomes**", Volume 12, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 343-349, ISSN : 2321-9653, DOI : <https://doi.org/10.22214/ijraset.2024.64518>
19. Dr. Diwakar Ramanuj Tripathi, Huzaifa Naz Nasim Akhtar , Rohit Rajendra Bhandarkar. "**Enhancing IOT Security: Investigating Lightweight Encryption Algorithms for Resource-Constrained Devices**", Volume 12, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 350-357, ISSN : 2321-9653, DOI : <https://doi.org/10.22214/ijraset.2024.64519>
20. Dr. Diwakar Ramanuj Tripathi, Prajwal Rushi Kshirsagar , Vibhor Sheshrao Patil . "**Wireless Network Security Prediction Using Machine Learning and Graph Neural Networks**", Volume 12, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 358-365, ISSN : 2321-9653, DOI: <https://doi.org/10.22214/ijraset.2024.64520>
21. Ashwini Vikas Ghogare and Diwakar Ramanuj Tripathi, "**Energy-Efficient Edge Computing Framework for Internet of Things (IoT) Networks**," *Anusandhanvallari, UGC CARE Listed (Group-I)*, vol. 2024, no. 1, pp. 3232–3240, Jul-2024. DOI: <https://doi.org/10.52783/anuval.1456>
22. Dr. Ashwini Vikas Ghogare, Dr. Diwakar Ramanuj Tripathi, "**Deep Learning-Based Malware Detection Framework for Wireless Environments**," *Anusandhanvallari, UGC CARE Listed (Group-I)*, vol. 2023, no. 1, pp. 888–897, Dec- 2023. DOI: <https://doi.org/10.52783/anuval.1454>
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## Annexure-2

### Intellectual Property Rights – Indian Patent

Sr. No.	Patentee	Patent No.	Title of Invention	Date of Grant
1	Dr. Diwakar Ramanuj Tripathi Amol A. Umak	518602	BIZCAART - A MULTIPURPOSE E-TRICYCLE	01-03-2024
2	Dr. Diwakar Ramanuj Tripathi	385964-001	SMART SPY GOGGLE FOR COLLECTING IMAGES AND REALTIME STORING ON CLOUD	08-12-2023
3	Dr. Diwakar Ramanuj Tripathi	418257-001	EQUIPMENT TO MITIGATE PERFORMANCE ISSUES IN MOBILE CLOUD COMPUTING	05-08-2024
4	Dr. Diwakar Ramanuj Tripathi	428372-001	SOLAR VEHICLE EMPOWERED BY ARTIFICIAL INTELLIGENCE	04-11-2024
5	Dr. Diwakar Ramanuj Tripathi Dr. Ashwini Ghogare.	419549-001	QUANTUM SENSING DEVICE FOR ENVIRONMENTAL MONITORING	25-09-2024
6	Dr. Diwakar Ramanuj Tripathi	428373-001	TRAILER WITH A SOLAR SECURITY SYSTEM MOUNT	17-10-2024
7	Dr. Diwakar Ramanuj Tripathi	428371-001	PORTABLE TABLET COMPUTER	28-11-2024

### Intellectual Property Rights – Indian Copyrights

Sr. No.	ROC Number	Work Title	Submitted On	Status
1	L-149246/2024	University Functions & Its Authorities (Act Statutes & Ordinance)	23-04-2024	Registered
2	L-149768/2024	Leadership styles of Situational Leadership	10-04-2024	Registered
3	L-149190/2024	Cyber Security Audit Framework for Organization	10-04-2024	Registered
4	L-149108/2024	Virtual Cloud (VCloud) Risk & Governance Framework	10-04-2024	Registered
5	L-146011/2024	Oracle Database Administration Worksheet	24-02-2024	Registered

6	L-142194/2024	Employability Skills and Indian Constitution	29-10-2023	Registered
7	L-147233/2024	Cyber Security Threats	29-10-2023	Registered
8	L-142013/2024	Core of Virtualization	28-07-2023	Registered
9	L-135122/2023	Core of Cloud Computing	28-07-2023	Registered
10	LD-20250175896	Action Research	15-10-2025	Registered
11	LD-20250173599	Levels of Learning: Blooms Taxonomy	11-09-2025	Registered
12	LD-20250172594	Enhancing Learning through Digital Quiz Tools	27-08-2025	Registered
13	LD-20250170773	Skill of illustration	12-08-2025	Registered
14	LD-20250170710	NAAC Assessment & Accreditation of HEIs Overview of NAAC Framework	12-08-2025	Registered
15	LD-20250168915	Concept Map & Word Cloud	22-07-2025	Registered
16	LD-20250168914	Effective Use of Artificial Intelligence	22-07-2025	Registered

## Intellectual Property Rights – International Patent

Sr. No.	Patentee	Patent No.	Title of Invention	Date of Grant
<b>International (UK)</b>				
1	Dr. Diwakar Ramanuj Tripathi	6386466	Portable Tablet computer	03-09-2024
2	Dr. Diwakar Ramanuj Tripathi	6366972	Device for mitigating performance issue in mobile cloud computing	24-05-2024
3	Dr. Diwakar Ramanuj Tripathi Dr. Ashwini Ghogare	6274898	SMART SPY GOGGLE FOR COLLECTING IMAGES AND REALTIME STORING ON CLOUD	21-04-2023
4	Dr. Diwakar Ramanuj Tripathi	6318265	Portable Device to Identify Early Detection of Refilling of Gas Cylinder by Using Pressure Based Sensor Technology	30-10-2023
<b>International (Australia)</b>				
5	Dr. Diwakar Ramanuj Tripathi	202413593	Quantum Sensing Device for Environmental Monitoring	17-07-2024
<b>International (Germany)</b>				

6	Dr. Diwakar Ramanuj Tripathi	G06F 21/31	An e-authentication system based on artificial intelligence, big data and cyber security using QR codes and OTPs	09-02-2023
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## Intellectual Property Rights – International Copyrights (Canada)

Sr. No.	ROC Number	Work Title	Submitted On	Status
1	1217100	Oracle Database Administration Worksheet	07-08-2024	Registered
2	1219470	cyber security and privacy mitigations prediction models using artificial intelligence for 6g networks	23-08-2024	Registered

## Annexure-3

### Faculty Development Programmes (FDPs) / Training

**2025-2026**

1. Participated in **One Week Online National Faculty Development Programme on Innovative Pedagogical Methods & Practices**, organized by *Malaviya Mission Teacher Training Centre (MMTTC), Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, sponsored by UGC, Ministry of Education, Government of India, **10-17 March 2026**.
2. Participated in **AICTE ATAL Faculty Development Programme on Hydrogen Energy Transformation: Sustainable Production, AI/ML Integration and Policy Alignment**, organized by *Shri Ramdeobaba College of Engineering and Management*, sponsored by AICTE ATAL Academy, **08-13 December 2025**.
3. Participated in **AICTE ATAL Faculty Development Programme on Future Intelligent Networks Toward 6G**, organized by *National Institute of Technology (NIT) Rourkela*, sponsored by AICTE ATAL Academy, **24-29 November 2025**.
4. Participated in **AICTE ATAL Faculty Development Programme on Generative and Ethical AI: Techniques and Applications**, organized by *National Institute of Technology (NIT) Tiruchirappalli*, sponsored by AICTE ATAL Academy, **20-25 January 2025**.
5. Participated in **One Week Online FDP on Design, Manage & Analyze Research & Assessment Tools**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, sponsored by UGC, Ministry of Education, **30 July - 06 August 2025**.
6. Participated in **One Week Online FDP on Outcome Based Education & Frameworks**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, **07-15 May 2025**.
7. Participated in **One Week Online FDP on Pedagogical & Research Tools**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, **18-25 March 2025**.

**2024-2025**

8. Participated in **One Week Online FDP on Enhancing Research-Based Skills**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, **16-23 October 2024**.

## **Refresher Courses / Orientation / Induction Programmes**

### **Refresher Courses**

9. Participated in **Two Weeks Online Multidisciplinary Refresher Course on Lessons from Bhagavad Gita**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, sponsored by UGC, Ministry of Education, **09-24 December 2025**.
10. Participated in **Two Weeks Online Multidisciplinary Refresher Course on IKS: Jyotish & Vastu Shastras**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, sponsored by UGC, Ministry of Education, **27 August - 12 September 2025**.
11. Participated in **Two Weeks Online Multidisciplinary Refresher Course on Indian Knowledge System & Science**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, **09-24 December 2024**.
12. Participated in **Refresher Course on Cyber Security (Synchronizing Devices & Internal Safety)**, organized by *UGC-Human Resource Development Centre (HRDC), Guru Ghasidas Vishwavidyalaya, Bilaspur*, **08-22 September 2023**.

### **Faculty Induction / Orientation Programmes**

13. Completed **One Month Mandatory Faculty Induction Programme**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, sponsored by UGC, Ministry of Education, **20 May - 20 June 2025**.
14. Completed **One Month Mandatory Faculty Induction Programme**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi*, **03 June - 05 July 2024**.
15. Completed **One Month Faculty Induction Programme under PMMMMNTT Scheme**, organized by *Teaching Learning Centre, Ministry of Education, Government of India*, **13 July - 11 August 2023**.

## International Conferences (Chair / Patron / Session Chair)

16. Served as **Conference Chair** for the *2nd International Conference on Applied Science, Business and Management, Engineering & Technology (ICABMET-2026)*, organized by *Confworld Educational Research and Development Association (CERADA)*, **Dubai (UAE), 30–31 March 2026.**
17. Served as **Conference Chair** for the *International Conference on Applied Science, Business and Management, Engineering & Technology (ICABMET-2025)*, organized by *Confworld Educational Research and Development Association (CERADA)*, **Chennai, 23–24 July 2025.**
18. Served as **Session Chair** at the *12th International Conference on Recent Challenges in Engineering and Technology (ICRCET-2024)*, organized by *Institute for Educational Research and Publication (IFERP)*, **Bengaluru (Hybrid), 23–24 April 2024.**
19. Served as **Patron** for the *International Conference on Pharmaceutical Sciences 2024*, organized by *Airo Research Journal in association with MIT College of Pharmacy & MET Faculty of Pharmacy, Moradabad*, **15–16 November 2024.**
20. Served as **Patron** for the *International Conference on Exploring Innovative Research Methodologies*, organized by *Mangalayatan University & Airo Journals*, **25–26 February 2024.**

## Workshops / Training / Other Academic Activities

21. Participated in **MS-DEED Level 2 Master Trainer Programme**, organized by *Indian Institute of Science Education and Research (IISER), Pune*, **20 November – 01 December 2023.**
22. Participated in **MS-DEED Level 1 Workshop on Innovative Pedagogies for Undergraduate Teachers**, organized by *Maharashtra State Faculty Development Academy in collaboration with IISER Pune and UGC-HRDC Sant Gadge Baba Amravati University*, **19–21 January 2023.**

## Extension / Academic Contribution

23. Delivered/Participated in **Lecture Series on Indian Knowledge System (IKS & Wellness Lifestyle: NEP-2020)**, organized by *MMTTC, Shri Lal Bahadur Shastri National Sanskrit University*, **29 August 2023.**

24. Served as **Coordinator** for the *National Intellectual Property Awareness Mission*, organized by *Intellectual Property Office, India*, **04 February 2023**.

25. Served as **External / Internal Examiner, Paper Setter and Moderator** at R.T.M. Nagpur University for Under graduate and post graduate courses at various colleges since Jan-2022

## Declaration

I am keen to continue my career and prepared to work hard in order to achieve my organization objectives and I hereby declare that the information furnished above is true to the best of my knowledge.

**Date:**

***Dr. Diwakar Ramanuj Tripathi***