

Subject Specialization –Data Science, Data Mining, Business Data Analytics, Data Structures, Design and Analysis of Algorithms, Machine learning, Computer Architecture

- **Educational Qualifications**

- **PhD (Computer Science) (2016)**

University- Gyan Vihar University, Jaipur (NAAC A+ accredited University)
PhD Topic – Analysis of Data Warehouse Implementation in RDBMS and Design a generalized framework for Implementation.

- **Master of Computer Application(MCA)**

Rajasthan University (**Main Campus**)
Percentage – 72 %

- **Bachelor in Science (B.SC)**

Rajasthan University in subject zoology, Chemistry and Computer Application
Percentage – 68%

- Senior secondary(PCB) from Rajasthan Board
Percentage- 61%

- Secondary from Rajasthan Board
Percentage – 72%

CERTIFICATION

1. IBM Certified Associate developer (Rational Application developer for Web Sphere Software V6.0
2. IBM Certified Academic Associate (DB2 9 Database and application Fundamentals)
3. IBM Certified Solution Designer (Rational Functional Tester for JAVA)
4. IBM Certified Solution Developer Websphere Integration Developer V6.2)
5. IBM Certified Associate System Administrator Lotus Notes and Domino 8

Research Publications

INTERNATIONAL

1. Aditi Tulchhia, Dr. Monika Rathore, "An Improved Predictive Analysis of Brain Tumor Using ResNet50 and ResNet34" European Chemical Bulletin (ISSN: 2063-5346) 2023, 12 (Special Issue 10) [SCOPUS INDEXED].
2. Aditi Tulchhia, Dr. Monika Rathore, "Brain Tumor Detection from MRI Images using Anisotropic Filter and Segmentation Images Processing", Neuro Quantology (ISSN:1303- 5150) Volume 20, Issue 9, November 2022 [SCOPUS INDEXED]
3. Aditi Tulchhia¹ , Dr. Monika Rathore² "A Survey On Overall Survival Prediction Of Brain Tumor Patients Using Machine Learning And Gradient Boosting Techniques" Webology (ISSN: 1735-188X) Volume 18, Number 4, 2021 , PP 1550 -1563 [SCOPUS INDEXED]
4. Aditi Tulchhia, Dr. Monika Rathore, "Random Forest Model for Classification of Raisins Using Morphological Features", International Journal of Management & IT (OORJA), Volume 19, Issue 1 (2021)
5. Shivani Sharma , Dr Monika Rathore "Comparison Study of Classification Techniques for Predicting Performance of Students using Weka Environment" Presented on 7-8 January 2021 at FICR-TEAS 2022 organized by IIS(Deemed To Be) University, Jaipur and published in conference proceedings (Scopus indexed)
6. Aditi Tulchhia , Dr Monika Rathore " Random Forest Model for classification of Raisins using Morphological Features" OORJA , International Journal of Management and IT , Volume 19, 2021
7. Dr Monika Rathore , Harshita Bhati " Diagnosis and detection of plant leaf disease using Data Mining Techniques " presented at ICDAM, POLAND 26 JUNE, 2021 and published in proceedings of Data Analytics and Management , pg 451-458 (**Scopus Indexed**)
8. Dr Monika Rathore, Pratiksha Kanwar "Cognitive Study of Data Mining Techniques in Educational Data Mining for Higher Education " Presented and Published in Information and Communication Technology for competitive Strategies 2020, Lecture Notes in Networks and Systems , Springer pg 247-258 (**Scopus indexed**)

9. Dr. Monika Rathore ,Shruti Gupta "Composite Framework of Artificial Neural Network and Decision Tree Algorithm for Prediction of Fraudulent firm using Audit Dataset"
Presented at Rising threats in expert applications and solutions organized by IIS
(Deemed to be) University Jaipur on January 17-19 2020 and Published in proceedings
of FICR –TEAS 2020 Advances in Intelligent Systems and Computing , Pg 543-547
(Scopus Indexed)

10. Dr. Monika Rathore ,Shruti Gupta "Decision Tree Using Artificial Neural Network : A
Proposed Model " Presented in 2nd International Conference on Communication &
Computational Technologies (ICCCT 2019) held on 30th – 31st August 2019 at
Rajasthan Institute of Engineering & Technology , Jaipur . Published in Proceedings of
International conference on communication and Computational technologies
(Springer)

11. Dr. Monika Rathore ,Shruti Gupta " A Comparative Analysis of R and WEKA For
Market Basket Analysis using Apriory Algorithm " Presented in 2nd International
Conference on Communication & Computational Technologies (ICCCT 2019) held on
30th – 31st August 2019 at Rajasthan Institute of Engineering & Technology , Jaipur.
Published in Proceedings of International conference on communication and
Computational technologies (**Springer**)

12. Monika Rathore , Harshita Bhati , Shashank Goswami " Modelling Rajasthan
Assembly Election: Sentimental Analysis of Rajasthan Political Twitter Data"
presented and published through **Elsevier SSRN** International Conference on
Sustainable Computing in Science, Technology & Management (SUSCOM-2019) Jaipur,
India on February 26 - 28, 2019. Pg 2469-2473

13. Aditi Tulchhia, Dr Monika Rathore " A Literature Survey on Big Data Analytics in
Context of Smart Cities" Published in International Journal of Modern Electronics and

Communication Engineering (IJMECE), Volume No 6 , Issue No. 6 November 2018
ISSN 2321-2152 (UGC LISTED)

14. Dr Monika Rathore & Apoorva verma "Big Data-Trends, Analysis and Challenges"
Published in JETIR August 2018, Volume 5, Issue 8 pg.441-448 (UGC LISTED)

15. Dr monika Rathore" Hadoop Map Reduce Framework for Automated Banking
System" Published in International Journal of Computer Science and Mobile
Applications, Vol.6 Issue. 1, January- 2018, pg. 23-30 (UGC LISTED)

16. Verma A. & Dr Rathore M " Big Data-Trends, Analysis and Challenges" Published in
JETIR, Volume 5, Issue 8 August 2018 pg- 209-213 (UGC APPROVED)

17. Dr monika Rathore "Comparative Analysis of Data extraction Association rule
Algorithm" published in IJCSIT , VOLUME- 08(ISSUE 3), Impact Factor 3.32.

18. Dr Monika Rathore , Ms. Yogita Sharma "" Architectural, Performance and Security
variations of ORACLE & DB2 Data Warhouse " Published in in International Journal of
Engineering Trends & Technology (IJETT), ISSN: 2231-5381.Volume-41 Number-4-
November 2016 Impact Factor 1.656

19. Monika Rathore , Dr. Vijay Singh Rathore, Dr.Ripu Ranjan Sinha "Unique Data
Model for Data warehouse: Characteristics, Benefits and Limitations" Published in
International Journal of Innovations in Engineering and Technology(Thompson Reuters
Research ID Indexed), in February 2016 . VOLUME- 06(ISSUE 3), PAGE NO.- 387-392,
IMPACT FACTOR- ISSN NO. 2319-1058 , Impact factor- 0.6

20. Monika Rathore , Dr. Vijay Singh Rathore "Study and Analysis of Active Data
Warehousing and its Implementation in Sun Oracle Data Base" published in IIJDWM , in

NOVEMBER 2013. Volume – 03 issue 4 , Page No. 212-216 , ISSN 2249- 7161 Online
ISSN- 2249-2186, Impact Factor- 2.4

21. Monika Rathore , Dr. Vijay Singh Rathore "Comparative study of DB2, ORACLE, SQL
SERVER AND MY SQL for implementing Data Warehouse" Published in International
Research Journal for Management and Computer Application volume -02 , Page No. –
88-93, ISSN – 2250-0529

Research Papers Presented in National and International conferences

NATIONAL CONFERENCES

1. Monika Rathore "Oracle: A RDBMS Which Entirely Supports Data Warehousing"
Presented in International Conference "Gen Next: The Green Engineering &
Digita Era" organized by Biyani group of institution held on 23-24 September
2011.
2. Monika Rathore , Dr. Vijay Singh Rathore "Metadata Oriented Security Framework
for Data Warehouse" Presented in National Conference on Network &
Information Security held during 14 & 15 May 2010 at RCEW Jaipur, Rajasthan
in association with **IEEE**

International CONFERENCES

1. Dr. Monika Rathore ,Shruti Gupta "Composite Framework of Artificial Neural Network
and Decision Tree Algorithm for Prediction of Fraudulent firm using Audit Dataset"
presented in FICR International Conference on Rising Threats in Expert Applications
and Solutions" on 17-19 January 2020, organized by IIS (deemed to be) University,
Jaipur (**Springer conference**).
2. Dr. Monika Rathore ,Shruti Gupta "Decision Tree Using Artificial Neural Network : A
Proposed Model " Presented in 2nd International Conference on Communication &

Computational Technologies (ICCCT 2019) held on 30th – 31st August 2019 at Rajasthan Institute of Engineering & Technology , Jaipur . (**Springer conference**)

3. Dr. Monika Rathore ,Shruti Gupta “ A Comparative Analysis of R and WEKA For Market Basket Analysis using Apriory Algorithm ” Presented in 2nd International Conference on Communication & Computational Technologies (ICCCT 2019) held on 30th – 31st August 2019 at Rajasthan Institute of Engineering & Technology , Jaipur. Published in Proceedings of International conference on communication and Computational technologies (**Springer Conference**)

5. Monika Rathore , Harshita Bhati , Shashank Goswami “ Modelling Rajasthan Assembly Election: Sentimental Analysis of Rajasthan Political Twitter Data” presented and published research paper in **Elsevier SSRN** International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019) , held in Amity University Rajasthan, Jaipur, India on February 26 - 28, 2019.

4. Presented a Research paper on “ Study and Analysis of Data Warehousing in the Era of Big Data ” in International Conference on Management and IT on “Big Data and Internet of Things: Technology and Impact on Business and Management”, ICMIT 2016 organized by IIIM, The IIS University, Jaipur and Indus International University, Una, HP on 16-17 August 2016

5. Monika Rathore , Dr. Vijay Singh Rathore “Data Warehouse: An essential part of Business Intelligence ”Presented in National Conference on Management and Information Technology “Restructuring of global economy :challenges ahead organized by ISIM and IIS University, Jaipur. Held on 19-20 April 2011.

6. Monika Rathore (Study and Analysis of key steps of Data Warehouse initialization) Presented in 27th national conference on Advance in MEMS and Robotics in

Manufacturing industries organized by the institution of engineers (India) at Jaipur on 03-04 September 2011.

7. Monika Rathore "A Study of Meta Data: Its Significance in Data Warehouse and various maintenance requirement" Presented in National Conference on Management and I.T held on 19-20 April, 2012.

8. Monika Rathore , Dr. Vijay Singh Rathore "The Impact of Network Storage in DB2 and ORACLE Data Warehouse" Presented in National Conference" Entrepreneurship and Innovation: Catalyst & Effects" on Management and I.T organized by IIS University & ISIM Jaipur.

10. Monika Rathore "Oracle: A RDBMS Which Entirely Supports Data Warehousing" Presented in International Conference "Gen Next: The Green Engineering & Digital Era" organized by Biyani group of institution held on 23-24 September 2011.

11. Presented a Research paper on " Study and Analysis of Data Warehousing in the Era of Big Data " in International Conference on Management and IT on "Big Data and Internet of Things: Technology and Impact on Business and Management", ICMIT 2016 organized by IIIM, The IIS University, Jaipur and Indus International University, Una, HP on 16-17 August 2016

12. Presented Research Paper " Decision Tree learning using Artificial Neural Network " In ICMIT-19 held in International School of Informatics and Management on 11- 12 April 19

13. Presented Research Paper " Fraud Detection in Banking using Data Analytics " In ICMIT-19 held in International School of Informatics and Management on 11- 12 April 2019

PhDs/ Projects Guided	Working as Research supervisor at Rajasthan technical university , Kota since 2016 , 5 Research Scholars Pursuing PhD under supervision
Professional Memberships	<ul style="list-style-type: none"> • Member, Editorial Board, OORJA: A Bi-annual Refereed International Journal of Management & IT. • Member of Board of studies(MCA) of IIS University • Member, International Association of Engineers (IAENG), Hong Kong • Member, Computer Science Teachers Association (CSTA), USA
Interaction with Professional Institutions	<ul style="list-style-type: none"> • Program committee member of SUSCOM (Elsevier) International conference ,Amity university, Jaipur • Technical Committee member at InC4 International conference at CHRIST University, Bangalore • Advisory Committee member at InC4 International conference at CHRIST University, Bangalore • Member of Board of studies(MCA) of IIS University • Question paper setter and Examiner at RTU, KOTA • External Examiner at POORNIMA University, SANGAM University

Invited as Resource person / Speaker

- Conducted PhD final defense Viva as external examiner at Sangam University, Bhilwara
 - Chaired Technical Session at ICMIT 2022 held on 9-10 September 2022
 - Session Chair at various International Conferences –
 - Chaired the technical session at SmartCom 2024 held on 12 January 2024
 - Chaired the technical session at 7th world conference on Smart Trends in systems, Security and Sustainability held at London during 21-24 August 2023
 - Chaired the technical session at 8th international congress on information and communication technology, London UK held during 20-23 February 2023
 - Chaired Sessions at various ICTCS 2012 Held on 17-18 2021
 - International Conferences ICMIT, ICTCS 2021, ICICT 2023 (London, Hybrid Mode) ICTIS 2023 (Springer Nature)
 - Program committee member of SUSCOM (Elsevier) International conference ,Amity university, Jaipur
 - Technical Committee member at InC4 International conference at CHRIST University, Bangalore
 - Advisory Committee member at InC4 International conference at CHRIST University, Bangalore
 - Keynote speaker at conferences –Keynote speaker at Conference at NCRTISTM- 2022 organized by CompuCom institute of Information Technology and Management , Jaipur
 - Workshop organized as a Resource Person –Resource person for 5 day workshop on Business Data Analytics for 160 students of IIS University MBA and for IIIM MBA BATCH From 13 to 18 March 2020

- Resource Person for Webinar on Data Analytics for Market Intelligence on 17 July 2020, for 200 participants.

- Faculty Development Programme: Attended various FDPs offered by AICTE ATAL, Google etc .
- **Best Research Paper Award:** Felicitated by best Research paper award In International conference in Management and Information Technology –2019 for research paper Decision Tree learning using Artificial Neural Network held on 11-12 April 19.