

CURRICULUM VITAE

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Department of Mathematical Sciences

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Educational Qualification

- **Doctor of Philosophy (Computer Applications) “Study of Pattern Recognition Techniques for Noisy English Alphabets & Words with Soft Computing Techniques”** from Bundelkhand University, Jhansi (2009).
- **Post Graduate in Computer Applications (MCA)** from Madhav Institute of Technology & Sciences, Jiwaji University, Gwalior with First Division (1998).

Work Experience Academic

- Professor in the Department of Mathematical Sciences & Computer Applications, Bundelkhand University, Jhansi, since September 16, 2015.
- Associate Professor in the Department of Mathematical Sciences & Computer Applications, Bundelkhand University, Jhansi, since September 16, 2012 to September 15, 2015.
- Reader in the Department of Mathematical Sciences & Computer Applications, Bundelkhand University, Jhansi, since September 16, 2009 to September 15, 2012.
- Sr. Lecturer in the Department of Mathematical Sciences & Computer Applications, Bundelkhand University, Jhansi, since November 05, 2005 to September 15, 2009.
- Lecturer in the Department of Mathematical Sciences & Computer Applications, Bundelkhand University, Jhansi since November 5, 1999 to November 04, 2005.
- Worked as Lecturer, Hindustan Institute of Management & Computer Studies, Agra since July 1999 to November 1999.
- Worked as Project trainee / Software Engineer in SuperTech Computer Solutions Pvt. Ltd. Pune, since February 1998 to June 1999.
- Worked as a coordinator of Department of Adult Continuing Education Extension and Field Outreach (ACEEFO), during 2007-2010.

Work Experience Administrative

- State Co-coordinator, U P State B Ed Combined Entrance Examination-2023.
- University Nodal Officer, Post Metric Scholarship scheme since 2015.
- Coordinator, CCTV controls room to monitor the centers for university examination-2018, 2019, 2022 and 2023.
- Nodal Coordinator of UP State B Ed Combined Entrance Examination-2022 for Bundelkhand University.
- Coordinator and in charge of online provisional degree and duplicate mark sheet preparation and distribution since 2017 to 2019.
- Assistant Dean Student Welfare (ADSW) since 2008 to 2014.
- Member, State core committee Uttar Pradesh B Ed Joint Entrance Examination-2014.
- Coordinator university examination (Computerized Result Preparation) system for the year 2008 and 2009.
- Coordinator training and placement.

Membership of the University / Other University's bodies

- Member **Executive Council** Bundelkhand University, Jhansi since March 05, 2021 to March 04, 2022.
- Member **Executive Council** Bundelkhand University, Jhansi since February 15, 2017 to February 14, 2018.
- Member **Executive Council** Bundelkhand University, Jhansi since March 13, 2009 to March 12, 2010.
- Member **Academic Council** Bundelkhand University, Jhansi.
- Member **Board of Studies of the Department** of Mathematical Sciences and Computer Applications.

- Subject Expert / Member, **Board of Studies of Department of Statistics and Computers**, Laxmi Bai National University of Physical Education, Gwalior.
- Member Board of Studies of MCA Department of Madhav Institute of Technology and Sciences, Gwalior, MP.
- Member Board of Studies of Department of Computer Science and Engineering, ITM University Gwalior, MP.
- Member Board of Studies of Department of Computer Science and Applications, Siddharth University, Siddharthnagar, Uttar Pradesh.
- External Expert for selection for faculty positions at ITM University Gwalior, in the year 2022.

Experience as Guide

Ph D Awarded: 06

1. Shashikant Gupta (2015), "Analysis and Development of Protocol for System Optimization in Heterogeneous Wireless Sensor Network".
2. Rajkumar Goel (2019), "Pattern Association for Static Images Using Associative Memory of Recurrent Feed Forward Neural Network".
3. Puneet Matapurkar (2022), "Association Rule Mining Algorithms using Fuzzy Approach for Spatial data."
4. Ajay Kumar (2022), "Network Security Assessment for Vulnerabilities and Intrusion Detection".
5. Kismat Chhilhar(2023), "Developing Computer Network Vulnerability Optimization Model for University Network with Special Reference to Bundelkhand University".
6. Palak Vaish(2023), "Performance Evaluation for Business Intelligence with the use of Data Warehousing and Data Mining."

Ph D Submitted: 01

1. Manpreet Singh Sandhu, "Study Linux Power - by Design and Implementation of Commands as Queries for Reading Data."

Ph D Pursuing: 02

1. Anurag Dwivedi, "Visibility Improvement and Interpretation of Ultrasound Images of Different Organs using Computer Vision Techniques."
2. Pawan Agrawal, "Analysis and Development of Intelligent Mechanism to Improve QoS in an Organizational Network."

Research Project

- Assessment of Network Application Vulnerability and Development of Optimization Model for Organizational network (intranet). Date of Award: January 04, 2022 by Uttar Pradesh Higher Education Department under Research and Development Scheme. Amount Sanctioned 4 Lac 40 Thousand.

Publications Published in National and International Journals

1. **Shrivastava, S.** and Singh, M.P.,(2009), "Analysis of Soft Computing Techniques to Minimize the Local Minima Problem for Hand written English Alphabets.", M R International Journal of Engineering and Technology,(ISSN 0975-4997), vol. 1, no. 1, pp. 19-26.
2. **Shrivastava, S.** and Singh, M.P.,(2010),"Performance evaluation of feed forward neural network with soft computing techniques for hand written English alphabets." Applied Soft Computing Journals of Elsevier's Publication,(ISSN 1568-4946) vol. 11,pp. 1156-1182. (<https://doi.org/10.1016/j.asoc.2010.02.015>).
3. **Shrivastava, S.,** Lavania Rajesh and Srivastava P.N., (2010), "Hybrid Evolutionary Algorithm for Feed Forward Neural with Minimization of Randomness in Genetic Algorithm for Pattern Recognition.", Journal of Management Development and Information Technology(ISSN. 0976-8440), vol. 8, pp. 26-33.
4. Pande, S. R. , **Shrivastava, S.,** Lavania Rajesh and Singh, M.P.,(2011) "Performance Analysis of Feed Forward Neural Network for the Recognition of Scaled and Rotated Hand Written Alphabets using Soft-Computing Technique.", International Journal of Computer Science And Applications(ISSN: 0974-1003), vol. 4, no. 2, pp. 97-112 .
5. Gupta, Shashikant and **Shrivastava, S.** (2011), "Energy Efficient Routing Protocol in Heterogeneous Sensor Network – A Survey.", Indian Journal of Mathematical & Computer Sciences (ISSN No.2249-2070), vol. 1, part II, pp. 37-40.

6. Dharamveer Sisodia , Jitendra Kumar Gupta ,Beerendra Kumar and **Dr Saurabh Shrivastava (March 2013)**, "A Survey of Predicting Close Value in Stock Market .", International Journal of Computer Science and Information Security (IJCSIS), (ISSN 1947-5500), Vol. 11, Issue 03,pp. 100-103
7. Anand Singh, **Saurabh Shrivastava**, Jitendra Kumar Gupta, and Anil Singh **(2013)**, "Mechanism for Detection and Reaction Wormhole Attack in AODV .", International Journal of Electronics Enjeneering, (ISSN 0973-7383), Vol. 05, Issue 01,pp. 73-75.
8. Manpreet Singh Sandhu and **Dr Saurabh Shrivastava(2013)**. G'NOO – THE POWER BEHIND LINUX (GNU/LINUX). International Journal of Advance Research in Science and Engineering,(ISSN 2319-8346), Vol.2, Issue 12,pp. 73-82.
9. Shashi Kant Gupta and **Dr. Saurabh Shrivastva (2013)**." Exploring Energy Aware Clustering Protocol for Heterogeneous Sensor Network.", International Journal of Computer Applications, (ISSN 0975-8887),vol. 71, Issue 10,pp. 4-8.
10. Palak Vaish and **Dr Saurabh Shrivastava(2014)**, "Study of Data Warehouse Modeling and its different design approaches", International Journal of Research in Information Technology (IJRIT),(ISSN 2001-5569), Vol. 2 Issue 9,pp. 536-548.
11. Manpreet Singh Sandhu & **Dr. Saurabh Shrivastava (2014)**, "Study Linux Power – By Design And Implementation Of Commands As Queries For Reading Data.", International Journal of Research in Computer Application and Management,(ISSN 2231-1009), vol.4,Issue 1,pp.30-33.
12. Shashi Kant Gupta,Dr. S.P Singh **and Dr. Saurabh Shrivastva(2014)**. Performance Evolution EACP Protocol for System Optimization in Heterogeneous Sensor Network. International Journal of Computer Science and Network, (ISSN 2277-5420),Vol.2,Issue 6,pp. 17-24.
13. Ajay Kumar and **Dr Saurabh Shrivastava(2015)**," Role and Importance of Network Vulnerability Assessment in Organizational Network.", International Journal of Information Security and Software Engineering (Journals Pub), vol. 1, issue 1,pp.29-35.
14. Palak Vaish and **Dr Saurabh Shrivastava(2015)**," A Study Of Applications, Current And Future Trends Of Data Mining In Diverse Sectors.", International Journal of Computer Engineering and Applications,(ISSN 2321-3469), Vol. IX, Issue VI,pp.88-98.
15. Manpreet Singh Sandhu and **Dr Saurabh Shrivastava(2015)**,"DATA EXTRACTION - LINUX COMMANDS FOR DATA DRILLING WITH PERFORMANCE MAP", International Journal of Research in Computer Applications and Robotics, ,(ISSN 2320-7345),Vol. 3, Issue 6,pp.25-34.
16. Palak Vaish and **Dr Saurabh Shrivastava(2015)**," Business Intelligence and Data Warehousing: Study of tools for Transformation of Raw Data into Business Results", International Journal of Advance Research in Computer Science and Management Studies, (ISSN 2321-7782), vol. 3, issue 6,pp.13-23.
17. Palak Vaish and **Dr Saurabh Shrivastava(2016)**, "Mining Big Data: Study of tools of Open Source Revolution.", International Journal of Advance Research in Science and Engineering, (ISSN 2319-8354), Vol. 5, Issue 03,pp.358-365.
18. Rajkumar Goel, Vineet Kumar, **Saurabh Shrivastava**, A.K.Sinha (2017), "A Review of Feature Extraction Techniques for Image Analysis.",International Journal of Advanced Research in Computer and Communication Engineering, ISSN:2319-5940,Vol. 6,Special Issue 2, pp.153-155.
19. Rajkumar Goel, **Saurabh Shrivastava**, (2017), "A Survey on the Use of Pattern Recognition Techniques." , International Journal on Recent and Innovation Trends in Computing and Communication, (ISSN 2321-8169),Vol. 5 Issue: 7, pp.258-262.
20. Raj Kumar Goel, **Dr Saurabh Shrivastava** and Ganesh Kumar Dixit (2017). "Performance Analysis and Comparison of Recurrent Network for Pattern Storage and Recalling of Static Images". International Journal of Advance Research in Science and Engineering,(ISSN 2319-8346), Vol.6, Issue 09, pp. 1463-1468.
21. Ajay Kumar and **Dr Saurabh Shrivastava(March 2018)**, "[Network security assessment for vulnerabilities and intrusion detection.](#)", International Journal of Academic Research and Development, (ISSN 2455-4197), Vol. 3, Issue 2,pp. 673-675.
22. Ajay Kumar and **Dr Saurabh Shrivastava (Dec 2018)**, "Comparative Study on Network Vulnerabilities and Intrusion Detection System.", International Journal of Research and Analytical Reviews, (E ISSN 2348 –1269, PRINT ISSN 2349-5138), Vol. 5, Issue 4,pp. j154-j157.
23. Palak Vaish and **Dr Saurabh Shrivastava(2019)**, "Conceptual Framework on Business Intelligence and Analytics Through Business Performance Management.", Review Of Research , (ISSN 2249-894X), Vol. 8, Issue 04,pp. 1-10.
24. Raj Kumar Goel, Shweta Vishnoi and **Dr Saurabh Shrivastava (August 2019)**, "Image Denoising by Hybridizing Preprocessed Discrete Wavelet Transformation and Recurrent Neural Networks..", International Journal of Innovative Technology and Exploring Engineering (IJITEE), (ISSN 2278-3075), Vol. 08, Issue 10,pp. 3451-3457.

25. Puneet Matapurkar, and **Dr Saurabh Shrivastava (Dec 2019)**, “Applications of FP-Growth and Apriori Algorithm for Mining Fuzzified Spatial Dataset.”, *Journal of Engineering and Advanced Technology (IJEAT)* , (ISSN 2249 – 8958,), Vol. 09, Issue 02, pp. 2405-2411.
26. Palak Vaish and **Dr Saurabh Shrivastava(2020)**, “Business Intelligence: Escalation of Data Warehousing and Data Mining for effective Decision Making.”, *International Journal of Advanced Science and Technology*, (ISSN 2005-4238 print, 2207-6360 online), Vol. 29, Issue 5s, pp. 13377-1388.
27. Puneet Matapurkar, and **Dr Saurabh Shrivastava (Feb 2021)**, “Fuzzy Graph-Based Apriori Algorithm for Earthquake Predictions of Indian Subcontinents.” *The Journal of Oriental Research Madras* , (ISSN 0022– 3301), Vol. XCII, Issue II, pg. 235-252.
28. Puneet Matapurkar, and **Dr Saurabh Shrivastava (Mar 2021)**, “Correlations Mining Between Meteorological Conditions & Air Quality Using Graph-Based Fuzzified Apriori Algorithm.”, *The Sambodhi Journal* , (ISSN 2249– 6661), Vol. 44, Issue 01, pg. 50-60.
29. Kismat Chhillar, and **Dr Saurabh Shrivastava (Dec 2021)**, “Vulnerability Scanning of University Computer Network Using Zenmap.”, *Indian Journal of Computer Science* , (ISSN 2456- 4133), Vol. 6, Issue 06, pg. 08-18.
30. Chhillar, K., & **Shrivastava, S.** (2021, December). University Computer Network Vulnerability Management using Nmap and Nexpose. *International Journal of Advanced Trends in Computer Science and Engineering*, 10(6), 3084–3090. <https://doi.org/10.30534/ijatcse/2021/021062021>.
31. Chhillar, K., & **Shrivastava, S.** (2022, April). University Computer Network Vulnerability Assessment. In *International Journal of Scientific Research & Engineering Trends* (Vol. 8, Issue 2). 908-915. https://ijsret.com/wp-content/uploads/2022/03/IJSRET_V8_issue2_256.pdf.
32. Ajay Kumar, Jitendra Singh, Vikas Kumar & Saurabh Shrivastava (2023), “ An Efficient Method to Decide the Malicious Traffic: A Voting-Based Technology.” *International Journal of Decision Support System Technology (IJDSST)*, Vol 15, Issue 1.(DOI: 10.4018/IJDSST.323191)

Papers published in Proceedings of International Conference

1. Shashi Kant Gupta and **Dr. Saurabh Shrivastva** (2013). EACP: Energy Aware Clustering Protocol for system Optimization in Heterogeneous Sensor Network. Springer SPC, LNCS, Communications in Computer and Information Science, Published by Elsevier Publication, pg. 679-685.
2. Shashi Kant Gupta and **Dr. Saurabh Shrivastva**(2013).“Analysis of Clustering Protocol for System Optimization in Heterogeneous Sensor Network“. IEEE International Conference on Communication System and Network Technologies , 978-0-7695-4958-3/13. Pg. 395-399.
3. Chhillar, K., & **Shrivastava, S.** (2021), “Vulnerability Scanning and Management of University Computer Network.”, In *2021 10th International Conference on Internet of Everything, Microwave Engineering, Communication and Networks (IEMECON)* (pp. 01-06). IEEE. <https://doi.org/10.1109/IEMECON53809.2021.9689207> .(December)
4. Chhillar, K., & **Shrivastava, S.** (2021, December). University Computer Network Vulnerability Management using Nmap and Nexpose. *International Journal of Advanced Trends in Computer Science and Engineering*, 10(6), 3084–3090. <https://doi.org/10.30534/ijatcse/2021/021062021>

Papers Presented in Conferences

1. **Shrivastava Saurabh** and Dwivedi Vinay “E- Management of Food Processing Industries - Application of Information Technology in Food Processing.”, in National Conference on “Changing Scenario of Food Science Technology and Agriculture Product”, Organized by IFT and Institute of Agriculture Sciences, Bundelkhand University, Jhansi, November 11-12,2011.
2. **Shrivastava Saurabh** and Dwivedi Vinay “Global Economic Crisis & Information Technology”, in National Seminar on “Global Financial Crisis: Issues, Concerns and Challenges for India and Emerging Market Economies”, Organized by Institute of Economics and Finance, Bundelkhand University, Jhansi, February 26-27, 2011.
3. **Shrivastava Saurabh** “Performance Enhancement of Genetic Algorithm by Hybridizing it with Back Propagation Algorithm for Recognition of Hand Written English Alphabets”, in National Conference on “Modern Trends in Computer Science & Information Technology”, Organized by College of Science and Engineering, Jhansi, October 30-31,2011.
4. **Shrivastava Saurabh**, “Enhancing the Opportunities in Higher Education through ICT”. in national seminar on “Challenges in Higher Education”, conducted by UGC ASC LNUPE, Gwalior.”,October 14,2009.
5. **Shrivastava, S.** and Singh, M.P., “Analysis of Soft Computing Techniques for Minimizing the Problem of Local Minima

in Back Propagation for Hand written English Alphabets.”, in International Conference on Soft Computing and Intelligent Systems, (ICSCIS-07), December, 27-29,2007.

6. **Shrivastava Saurabh**, Tomar Deepak, “Empowering Women Through ICT: Challenges and Opportunity”, in International conference on “Towards a Global Village Role of Women in the Transformation.” March, 09-10, 2007.
7. **Shrivastava, S.** and Singh M.P “Analysis of Hybrid Evolutionary Algorithm for Hand Written Character Recognition”, in VIII Conference of the International Academy of Physical Sciences, (CONIAPS-VIII, 2005), jointly organized by CCS University, Meerut, Dec 29-31, 2005.

Conferences Attended / Organized

- Attended International Conference on “Soft Computing and Intelligent Systems (ICSCIS)”, December 07, and presented a paper on, “Analysis of Soft Computing Techniques for Minimizing the Problem of Local Minima in Back Propagation for Hand written English Alphabets.”
- Attended National Seminar on the theme “Challenges in Higher Education” conducted by UGC ASC, LNUPE, Gwalior on October 14, 2009 and presented the paper on “Enhancing the Opportunities in Higher Education through ICT”.
- Attended VIII Conference of the International Academy of Physical Sciences, (CONIAPS-VIII, 2005), jointly organized by CCS University, Meerut, Dec 29-31, 2005. and presented paper on “Analysis of Hybrid Evolutionary Algorithm for Hand Written Character Recognition”.
- Organized and attended International conference on “Towards a Global Village Role of Women in the Transformation.” March,09-10,2007.
- Attended V Conference of the International Academy of Physical Sciences, (CONIAPS-VIII, 2005), jointly organized by BU Jhansi, Apr 7-9, 2003.
- Attended workshop on Patent Awareness (PAT-2003) hosted by Institute of Information Technology, BU Jhansi.
- Attended workshop on “The publication of Technical Books in Hindi”, conducted by Hindi Shabdawali Ayog, Ministry of HRD.
- Attended workshop on “Suchna Prodyogiki Swaroop avam Sambhavnayen”, conducted by Hindi Shabdawali Ayog, Ministry of HRD jointly organized by Dr B R Ambedkar University, Agra.
- Organized and attended National Conference on “Scope, Opportunities & Challenges for women Entrepreneurs in the food Industry.”26-27 March 07, Organized by VJCWSD and ACEEFO, BU, Jhansi.
- Organized and attended Workshop on “Role of media in social development.” Nov 30, 2006.

Personal Detail

Father’s Name	Shri Vinod Mohan Shrivastava,
Date of Birth	1 st Aug, 1975
Marital Status	Married
Languages Known	Hindi and English
Strengths	Good Organizing Capabilities, Diligent, Dedication for Work
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