

Dr. Saurabh Pal

Associate Prof. & Head

Department of Computer Applications,
VBS Purvanchal University, Jaunpur -UP

E-mail: drsaurabhpal@yahoo.co.in

Mobile: 9044487708



TEACHING EXPERIENCE:

- **Seventeen Years** of teaching and **Fifteen Years** of Research experience.

EDUCATIONAL QUALIFICATION:

- **M.Sc. (Computer Science)** from Allahabad University Securing **70%** marks. (1996).
- **B.Sc. (Physics, Maths)** from Dr. R. M. L. Awadh University, Faizabad Securing **83%** marks. (1994).
- **Intermediate** from U.P. Board securing **70%** marks. (1991)
- **High School** from U.P. Board securing **75%** marks. (1989)

DOCTORAL DEGREE:

- **Ph.D.** from Dr. R. M. L. Awadh University, Faizabad (2002).

Ph. D. TITLE:

- **A study of Certain Queuing Models with their Applications in Computers and Telecommunications.**

AREA OF RESEARCH:

- Data Mining

BOOKS PUBLISHED

- **“Graph Theory”, Second Edition** – Saurabh Pal, Umesh Publication, New Delhi (2007), ISBN 81-88114-52-9
- **“Artificial Intelligence”,** Saurabh Pal, Umesh Publication, New Delhi (2007), ISBN 81-8114-60-4
- **“Computer Science – II” (In Hindi),** Saurabh Pal, Bansal Publishing House, Agra (2012)
- **“Computer Science – I” (In Hindi),** Saurabh Pal, Sahitya Bhawan, Agra (2014)
- **“System Analysis and Design”,** - Saurabh Pal, UPRTOU Self Learning Material, Allahabad (2016) (In Press)

RESEARCH PROJECT (Minor)

Title of Project: Application of Data Mining Techniques with Special Reference to Academic Performance Monitoring and Evaluation in Higher Education.

Funding Agency: UGC

Total Budget: 65,000/- , **Status:** Executed **Role:** Principal-Investigator

CITATION INDICES

h-Index: 17

i10-Index: 18

Citations: 1775

PUBLICATIONS

1. Chaurasia, V., Pal, S. and Tiwari, B.B., (2018), "Prediction of benign and malignant breast cancer using data mining techniques", Journal of Algorithms & Computational Technology, Vol. 12(2), pp. 119-126, ISSN: 1748-3018,.
2. Chaurasia, V. and Pal, S., (2017), "Is Alcohol Affect Higher Education Students Performance: Searching and Predicting Patterns Using Data Mining Algorithms", International Journal of Innovations & Advancement in Computer Science, Vol. 6(4), pp. 8-17, ISSN: 2347-8616, (Impact Factor - 2.65).
3. Chaurasia, V. and Pal, S., (2017), "Performance Analysis of Students Consuming Alcohol Using Data Mining Techniques", International Journal of Advanced Research in Science and Engg, Vol. 6(2), pp. 238-250, ISSN: 2319-8354, (Impact Factor - 2.65).
4. Yadav, D.C. and Pal, S., (2015), "Analysis Receiver Operating Characteristics of Software Quality Requirement by Classification Algorithms" International Journal of Computer Applications", Vol. 116(8), pp 12-17, ISSN: 0975-8887. (Impact Factor: 0.752.)
5. Yadav, D.C. and Pal, S., (2015), "An Integration of Clustering and Classification Technique in Software Error Detection". African Journal of Computing & ICT, 8(2), pp 9-16, ISSN: 2006-1781.
6. Pal, R. and Pal, S., (2015), "Application of Data Mining Techniques in Health Fraud Detection", International Journal of Engineering Research and General Science Volume 3, Issue 5, pp.129-137, ISSN: 2091-2730. (Impact Factor: 3.843).
7. Yadav, D.C. and Pal, S., (2015), "Survey of Risk in Software Project Development by Data Mining Tree Algorithms", International Journal of Scientific & Engineering Research, Volume 6, Issue 8, pp. 34-40, ISSN: 2229-5581. (Impact Factor: 3.8).
8. Yadav, D.C. and Pal, S., (2015), "Measurement of Bug in Documentary Specification of Software Requirement by Data Mining", International Journal of Scientific & Engineering Research, Volume 6, Issue 8, 2015, pp. 746-751, ISSN: 2229-5581. (Impact Factor: 3.8).
9. Yadav, D.C. and Pal, S., (2015), "Software Bug Detection using Data Mining". International Journal of Computer Applications, Vol. 115 (15), pp. 21-27, ISSN: 0975-8887. (Impact Factor: 0.752).
10. Yadav, R.S., Ahmed, P., Soni, A.K. and Pal, S., (2014), "Academic performance evaluation using soft computing techniques". **Current Science**, Vol. 106(11), pp.1505-1517, ISSN: 0011-3891. (Impact Factor: 0.843).
11. Yadav, R.S., Soni, A.K. and Pal, S., (2014), "Implementation of Data Mining Techniques to Classify New Students into Their Classes: A Bayesian Approach", International Journal of Computer Applications, Vol. 85(11), pp. 16-19, ISSN: 0975-8887. (Impact Factor: 0.752).
12. Chaurasia, V. and Pal, S., (2014), "A novel approach for breast cancer detection using data mining techniques", International Journal of Innovative Research in Computer and Communication Engineering, Vol. 2(1), pp.2456-2465, ISSN 2320-9801, (Impact Factor: 6.577).
13. Chaurasia, V. and Pal, S., (2014), "Data mining techniques: To predict and resolve breast cancer survivability", International Journal of Computer Science and Mobile Computing, Vol. 3(1), pp.10-22, ISSN: 2320-088x, (Impact Factor: 6.017).
14. Yadav, R.S., Soni, A.K. and Pal, S.,(2014), " Modeling Academic Performance Evaluation Using Hybrid Fuzzy Clustering Techniques", Australian Journal of Basic and Applied Science, Vol. 8(3), pp. 98-111, ISSN: 1991-8178. (Impact Factor: 0.23).
15. Chaurasia, V. and Pal, S., (2014), "Performance Analysis of Data Mining Algorithms for Dignosis and Prediction of Heart and Breast Cancer Disease", International journal of innovative computing, information & control: IJICIC, Vol. 3(8), pp. 1-13, ISSN: 2249-984X, (Impact Factor: 2.1002).

16. Pal, A.K. and Pal, S.,(2013), "Data Mining Techniques in EDM for Predicting the performance of Students", International Journal of Computer and Information Technology, Vol. 2(06), pp.1110-1116, ISSN: 2320-088X. (Impact Factor: 5.268).
17. Pal, A.K. and Pal, S., (2013), "Evaluation of Teacher's Performance: A Data Mining Approach", International Journal of Computer Science and Mobile Computing, Vol.2 Issue. 12, pp.359-369, ISSN: 2320-088x, (Impact Factor: 6.017).
18. Pal, A. K., and Pal, S. (2013), "Classification model of prediction for placement of students", International Journal of Modern Education and Computer Science, Vol. 5(11), pp. 49-56, ISSN: 2075-017X, (Impact Factor: 0.669).
19. Chaurasia, V., and Pal, S., (2013), "Early prediction of heart diseases using data mining techniques", Carib. j. SciTech, Vol.1, pp. 208-217, ISSN: 0799-3757.
20. Pal, A. K., and Pal, S. (2013), "Analysis and Mining of Educational Data for Predicting the Performance of Students", International Journal of Electronics Communication and Computer Engg., Vol. 4(6), pp. 1560-1565, ISSN: 2249-071X, (Impact Factor: 2.7).
21. Chaurasia, V., and Pal, S., (2013), "Data Mining Approach to Detect Heart Diseases ", International Journal of Advanced Computer Science and Information Technology (IJACSIT), Vol 2(4), pp 56-66, ISSN: 2296-1739, (Impact Factor: 0.531).
22. Pandey U.K., Yadav S. K. and Pal S. (2012) "Data Mining Application to Attract Students in HEI", International Journal on Computer Science and Engineering, Vol: 4 Issue: 6, 2012, pp.1048-1053 ISSN: 1048-1053.
23. Pal S. (2012), "Mining Educational Data to Reduce Dropout Rates of Engineering Students", I.J. Information Engineering and Electronic Business (IJIEEB), Vol. 4, No. 2, 2012, pp. 1-7.ISSN: 2074-9031, (Impact Factor: 0.642).
24. Yadav S. K. and Pal S, (2012), "Data Mining Application in Enrollment Management: A Case Study", International Journal of Computer Applications (IJCA), Vol. 41 – No. 5, pp. 1-6. ISSN: 0975-8887. (Impact Factor: 0.752.)
25. Pandey U.K. and Pal S. (2012), "Mining Data to Find Adept Teachers in Dealing with Students", I.J. Intelligent Systems and Applications, Vol. 3, pp.27-33, ISSN: 2074-9058, (Impact Factor: 0.743).
26. Yadav S. K. and Pal S, (2012), "Data Mining: A Prediction for Performance Improvement of Engineering Students using Classification", World of Computer Science and Information Technology Journal (WCSIT), Vol. 2, No 2, pp 51-56, ISSN: 2221-0741, (Impact Factor: 0.384).
27. Yadav S. K., Bharadwaj B. K. and Pal S. (2012), "Mining Educational Data to Predict Student's Retention: A Comparative Study", International Journal of Computer Science and Information Security (IJCSIS), Vol. 10, No. 2, pp 113-117, ISSN:1947-5500.
28. Gangwar S., Pal S. and Kumar K. (2012), "Mobile Ad Hoc Networks: A Comparative Study of QoS Routing Protocols", International Journal of Computer Science Engineering and Technology (IJCSET), Vol.2, Issue 1, pp 771-775, ISSN 2231-0711.
29. Pal, S. (2012), "Mining Educational Data Using classification to Decrease Dropout rate of Students", International Journal of Multidisciplinary Sciences and Engg., Vol. 3(5), pp. 35-39, ISSN: 2045-7057.
30. Bharadwaj B.K and Pal S. (2011), "Mining Educational Data to Analyze Students Performance", International Journal of Advance Computer Science and Applications (IJACSA), Vol.2, No. 6, pp 63-69, ISSN 2156-5570.
31. Yadav S. K., Bharadwaj B. K. and Pal S. (2011), "Data Mining Applications: A comparative study for Predicting Student's Performance", International Journal of Innovative Technology and Creative Engineering (IJITCE), Vol. 1, No. 12, pp. 13-19.
32. Singh M.K. and Pal S. (2011), "Five Layer Security Architecture & Policies for Grid Computing System", International Journal of CS & IT, Vol. 2(3), pp1312- 1314, ISSN 0975-9646.

33. Bharadwaj B.K and Pal S. (2011), "Data Mining: A prediction for performance improvement using classification", International Journal of Computer Science and Information Security (IJCSIS), Vol. 9, No. 4, pp 136-140, ISSN 1947-5500.
34. Pandey U.K. and Pal S. (2011), "A Data Mining View on Class Room Teaching Language", International Journal of Computer Science and Issues (IJCSI), Vol 8, Issue 2, pp 277-282, ISSN 1694-0814.
35. Pandey U.K. and Pal S. (2011), "Data Mining: A prediction of Performer or underperformer using classification", International Journal of CS & IT, Vol 2(2), pp 686-690, ISSN 0975-9646.
36. Chaurasiya V., Gupta A. and Pal S. (2011), "The Modern Era: Online Pharmacy and Self Medication: Review", Asian J. Pharm.Tech., 1(1), pp 04-08, ISSN 2231-5713.
37. Pandey U.K., Bharadwaj B.K and Pal S. (2011), "Data Mining as torch bearer in Education Sector", Technical Journal of LBSIMDS, Vol. 2, No. 1, pp 115-123, ISSN 0975-2374..
38. Yadav H.N. and Pal S. (2010), "Robust Mobile Phone User Identification and Voice Authentication", Technical Journal of LBSIMDS, Vol. 1, No. 1, pp 17-25, ISSN 0975-2374.
39. Yadav H.N. and Pal S. (2010), "User Identification by Voice Identification System", Pragmaan: Journal of Information Technology, Vol.8, Issue 2, pp 13-19, ISSN 0974-5513.
40. Singh M.K. and Pal S.(2010), "Security issues in Grid Computing", Pragmaan: Journal of Information Technology, Vol.8, Issue I, pp 1-4, ISSN 0974-5513.
41. Singh M.K. and Pal S. (2008) "Requirements for Developing Open Grid Services Architecture", Varahmihir Journal of Computer & Information Science, Vol. 3, No. 1 & 2, pp 97-103, ISSN 0973-3639.
42. Yadav H.N. and Pal S. (2008), "Design and Development of Voice Authentication System- A Brief Survey", Varahmihir Journal of Computer & Information Science, Vol. 3, No. 1 & 2, pp. 85-96, ISSN 0973-3639.
43. Mishra S.S. and Pal S., (2006), "A Computer Oriented Analysis of Machine Interference Model: M/M/C/K/N with Balking, Reneging, Jockeying and Spares", Varahmihir Journal of Computer & Information Science, Vol. 1, No. 1, pp 115-124, ISSN 0973-3639.
44. Pal S. (2004), "Waiting time distribution for M/M/1/N interdependent queueing model with controllable arrival rates" Acta Ciencia, Vol XXX, No. 3, pp 551-556, ISSN 0970-0455.
45. Pal S. (2004), "Cost analysis of the M/M/1/N interdependent queueing model with controllable arrival rates" Ganit Sandesh, Vol 17, No. 2, pp 13-20, ISSN 0970-9169.
46. Pal S. (2003), "The Transient Analysis of Finite Buffer M/D/c Queueing System", Journal – PAS , vol. 9, pp122-132, ISSN. 0972-3498.
47. Mishra S.S. and Pal S., (2003), "A Computational Approach to the M/M/1/N Interdependent Queueing Model with Controllable Arrival Rate", Journal of the Indian Statistical Association, Vol 41, 1, pp. 82-94.
48. Mishra S.S. and Pal S., (2002), "A Short Note on Waiting Time Distribution for M/M/C/K/N Queueing Models with Balking, Reneging and Spares", Journal of Decision and Mathematical Sciences, Vol 7(13), pp. 127-136.
49. Mishra S.S. and Pal S., (2001), "A Short Note on Transient State Analysis of Busy Period Distribution in GI/M^{a,b}/M:∞ Queues", International Journal of Management and Systems, Vol. 17(1), pp. 59-64.

Paper Presentations in Seminar/Conferences

1. Presented Paper entitled "Is Alcohol Affect Higher Education Students Performance: Searching and Predicting Pattern Using Data Mining Algorithms", in International Conference on "Latest Concepts in Science, Technology, Managements and Humanities", held on 2 April 2017 at NITTTR, Chandigarh.

2. Presented Paper entitled "Performance Analysis of Students Consuming Alcohol using Data Mining Techniques" in 3rd International Conference on "Latest Innovations in Science, Engineering and Management", held on 19 Feb, 2017 at Goa.
3. Presented Paper entitled "Academic Performance of Students in Higher Education", in National Conference on "Problems of Higher Education, Academic Management & Role of Teacher's Association", held on 16-17 Feb, 2015, at VBS Purvanchal University, Jaunpur.
4. Presented Paper entitled "Use of Ethics in System Development", in International Conference on "Spirituality: The Essence of Ethical Leadership and Management" held on 22-24 Nov, 2014 at SMS Varanasi.
5. International Conference on "An Analysis of Clustering Techniques for Target Marketing", in National Conference on "Water Demand Sustainability and Future" held on 3-4 May, 2014 at MNNIT, Allahabad.
6. Presented Paper entitled "IT Excellence through Emerging Dimensions of Management", in National Conference on "Management and Technology for Skill Development: Innovative Approach" held on 22-23 Feb 2014, at SMS Varanasi.
7. Presented Paper entitled "Multiple Regression Analysis of Assessment of Academic Performance of Students", in National Seminar on "Latest Trends in Information Technology, Theory and Practices" held on 15-16 Feb, 2014 at Seth Motilal P.G. College, Jhunjhunu, Rajasthan.
8. Presented Paper entitled "E-Governance and Business Education System", in 66th All India Commerce Conference & National Seminar on "Inclusive Growth and Sustainability – Role of Commerce Education in India", held on 5-7 Dec, 2013 at Bangalore University, Bangalore.
9. Presented Paper entitled "Intelligent Technology for Identification of Factual Information", in National Seminar on "Data Mining and Emerging Trends", held on 25 Sep 2013, at TERI, Ghazipur.
10. Presented Paper entitled "Application of Computer in Management", in National Seminar on "Advances in Management Practices", held on 19-20 Sept. 2013 at VBS Purvanchal University, Jaunpur.
11. Presented Paper entitled "Mining Educational Data to Reduce Dropout Rates of Engineering Students", in International Conference on "Leadership and Management through Spiritual Wisdom", held on 22-24 Feb 2013 at SMS Varanasi.
12. Presented Paper entitled "Impact of Social Networking Sites in the changing Mindset of Youth", in National Seminar on "Impact of Social Networking Websites on Women Security", held on 12-13 Feb 2013 at Sri Agrasen Kanya P.G. College, Varanasi.
13. Presented Paper entitled "Mining Educational Data using Classification", in 99th Indian Science Congress held on 3-7 Jan 2012, at KIIT University, Bhubaneswar.
14. Presented Paper entitled "Role of ICT in Women Empowerment" in National Seminar on "Women Empowerment through ICT", held on 12 Nov, 2011 at RSMT, Varanasi.
15. Presented Paper entitled "Social Status of Women in IT Sector", in National Seminar on "Women Empowerment through ICT", held on 12 Nov, 2011 at RSMT, Varanasi.
16. Presented Paper entitled "Multimodal Biometrics: Need of the Hour", in National Conference on "Management of Innovation in Business & Technology: New Strides", held on 19-20 Feb, 2011 at SMS, Varanasi.
17. Presented Paper entitled "Role of Women in Information Technology", in Seminar on "Teacher's Role in Promoting Gender Equality", held on 7 Dec 2010, at VBS Purvanchal University, Jaunpur.
18. Presented Paper entitled "Application of IT in the Phase of Global Meltdown" in National Seminar on "Resilience of Indian Corporation in the Phase of Global Meltdown" held on 10 April 2010 at KNIPSS, Sultanpur.

19. Presented Paper entitled "IT as an Organization Strategy Tool", in National Seminar on "Managing Organizational Change: Issues & Challenges", held on 3-4 Mar 2006 at VBS Purvanchal University, Jaunpur..
20. Presented Paper entitled "Crop Production Forecasting in India using DIP Techniques" in National Seminar on "Rural Marketing: Issues and Challenges in WTO Era", held on 23-24 Sept. 2005 at VBS Purvanchal University, Jaunpur.

Orientation/Refresher/Workshop Attended

1. Participated in **FDP** on "Data Analytics with R" organized by the E&ICT Academy, NIT, Warngal from 16-21, Jan 2017.
2. Participated in 1 week interaction course on RF/Microwave system and Photonic sensors organized by Department of Electronics Engineering, VBS Purvanchal University 14-19 April 2016.
3. Participated in One Week **Workshop** on "Numerical Computation Using MATLAB" organized by Department of Mathematics and Computer Science and Engineering, VBS Purvanchal University, Jaunpur from 26-30 Nov. 2015.
4. Participated in **International Workshop** on "Counseling Skills in Health Profession and Schools" organized by Department of Applied Psychology, VBS Purvanchal University, Jaunpur from 23-26 Oct. 2013.
5. Participated in **Workshop** on "Java Androids and Web Technologies" organized by Department of Science and Engineering, Jaypee University, Guna from 17-23 June 2013.
6. Participated in **Refresher Course** in Computer Science conducted by the UGC- Academic Staff College, University of Kerala, from 14-09-2009 to 05-10-2009.
7. Participated in **Workshop** on "Research Methodology and Multivariate Analysis in Psychological Research" organized by Department of Applied Psychology, VBS Purvanchal University, Jaunpur from 28 sep. to 04 Oct. 2005.
8. Participated in 4-Week **Orientation Programme** conducted by UGC- Academic Staff College, Himanchal Pradesh University, Shimla from 25-02-2005 to 24-03-2005.

ADMINISTRATIVE DUTIES:

- Head Dept. of Computer Applications (2002-2006 and 2011 to till date).
- Head Dept. of Mechanical Engineering (from 2016).
- Nodal Officer, AISHE, VBS Purvanchal University, Jaunpur (from 2011).
- Incharge, Campus Internet (from 2013).
- Convener, NIRF (from 2015).
- Centre Superintendent, Campus Examination (from 2015).
- Member, Library Committee (from 2015)
- Member. Academic Counsel (2013-2014)
- Warden, Charak Hostel (2010-2013).
- Convener, Board of Studies, MCA (2011-2014), ME (2016 to till date).

(Dr. Saurabh Pal)