RESUME

Dr. Saurabh Pal

Professor & Head
Department of Computer Applications,
VBS Purvanchal University, Jaunpur -UP
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TEACHING EXPERIENCE:
- **Twenty One Years** of teaching and **Ninteen Years** of Research experience.

PRESENT DESIGNATION:
- Professor from 01/01/2018.

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 Queueing Models with their Applications in Computers and Telecommunications.**

AREA OF RESEARCH:
- Machine Learning, Data Mining

COURSE TAUGHT:
- C-Programming, Computer Based Numerical & Statistical Techniques, Discrete Mathematics.

Ph.D. AWARDED: 02
- **Ritu Aggrawal (2021):** "Data Mining on Educational Data to Predict Student Performance Based on Various Parameters"
- **Vikas Chaurasia (2022):** "A Data Mining Approach to the Diagnosis of Diseases"

BOOKS PUBLISHED
- "**System Analysis and Design**", UPRTOU Self Learning Material, Allahabad (2017)
- **"कंप्यूटर विज्ञानं भाग-1",** Sahitya Bhawan, Agra (2017)
- **"कंप्यूटर विज्ञानं भाग-2",** Sahitya Bhawan, Agra (2017)
- **"Graph Theory", Second Edition**, Umesh Publication, New Delhi (2007), ISBN 81-88114-52-9

RESEARCH PROJECT (Minor)
Title of Project: Analysis of Hidden Pattern and Discover real facts of Medical Diseases using Integrated Machine Learning Techniques with Block Chain. (2022)
Funding Agency: VBS Purvanchal University, Jaunpur.
Total Budget: 1,00,000/- , **Status:** Running   **Role:** Principal-Investigator

Title of Project: Application of Data Mining Techniques with Special Reference to Academic Performance Monitoring and Evaluation in Higher Education. (2017)
Funding Agency: UGC
Total Budget: 65,000/- , **Status:** Completed   **Role:** Principal-Investigator

CITATION INDICES
h-Index: 28
i10-Index: 43
Citations: 4559 (Google Scholar)
Research Interest: 2146 (Research Gate)

PATENT: 03
Topic: 3D Printing Based Design and Development of Touchless Sensor-enabled Hand and Room Sanitizer Machine.
Application No. 202021056208 (India)
Date of Filing: 24/12/2020

Topic: An Empirical System for Risk Assessment of Mental Illness Disorder using Neural Network Diagnostic.
Application No. 2022/02141 (Republic of South Africa)
Date of Filing: 21/02/2022
Date of Grant: 25/05/2022

Topic: Systematic approach to manage processing of internet of things data integrating the techniques of big data analytics and machine learning for classical data processing practice.
Application No. 202211049067 (India)
Date of Filing: 28/08/2022
Publication date: 09/09/2022

CHAPTER IN EDITED BOOK PUBLISHED: 06

TOTAL PAPER PUBLISHED: 91

PUBLICATIONS (SCI/SCIE- 09)
1. Chaurasia, V., & Pal, S. (2022) Ensemble Technique to Predict Breast Cancer on Multiple Datasets. *The Computer Journal*.
2. Verma, A. K., & Pal, S. (2020). Prediction of skin disease with three different feature selection techniques using stacking ensemble method. Applied biochemistry and biotechnology, 191(2), 637-656.
3. Verma, A. K., Pal, S., & Kumar, S. (2020). Prediction of skin disease using ensemble data mining techniques and feature selection method—a comparative study. Applied biochemistry and biotechnology, 190(2), 341-359.
4. Chaurasia, V., & Pal, S. (2020). Machine learning algorithms using binary classification and multi model ensemble techniques for skin diseases prediction. International Journal of Biomedical Engineering and Technology, 34(1), 57-74.
5. Chaurasia, V., Pal, S., & Tiwari, B. B. (2018). Prediction of benign and malignant breast cancer using data mining techniques. Journal of Algorithms & Computational Technology, 12(2), 119-126.
6. Yadav, D. C., & Pal, S. (2018, October). A Fair Knowledge of Bureau Report by Data Mining Algorithms. In 2018 3rd International Conference on Communication and Electronics Systems (ICCES) (pp. 1024-1028). IEEE.

7. Yadav, R. S., Ahmed, P., Soni, A. K., & Pal, S. (2014). Academic performance evaluation using soft computing techniques. Current Science, 1505-1517.
8. Yadav, R. S., Soni, A. K., & Pal, S. (2014, March). A study of academic performance evaluation using Fuzzy Logic techniques. In 2014 International Conference on Computing for Sustainable Global Development (INDIACom) (pp. 48-53). IEEE.
9. Baradwaj, B. K., & Pal, S. (2011). Mining Educational Data to Analyze Students Performance. *International Journal of Advanced Computer Science and Applications*, *2*(6).

PUBLICATIONS (SCOPUS- 21)

1. Yadav, D. C., & Pal, S. (2022). Measure the superior functionality of machine intelligence in brain tumor disease prediction. In *Artificial Intelligence-Based Brain-Computer Interface* (pp. 353-368).
2. Yadav, D. C., & Pal, S. (2022). Thyroid prediction using ensemble data mining techniques. International Journal of Information Technology, 14(3), pp. 1273–1283.
3. Chaurasia, V., & Pal, S. (2022). An ensemble framework-stacking and feature selection technique for detection of breast cancer. International Journal of Medical Engineering and Informatics, 14(3), 240-251.
4. Chaurasia, V., Pal, S. (2022) Application of machine learning time series analysis for prediction COVID-19 pandemic. Res. Biomed. Eng. 38, 35–47. https://doi.org/10.1007/s42600-020-00105-4
5. Yadav, D. C., & Pal, S. (2021). Performance based Evaluation of Algorithms on Chronic Kidney Disease using Hybrid Ensemble Model in Machine Learning. Biomedical and Pharmacology Journal, 14(3), 1633-1646.
6. Kazmi, S. Q., Singh, M. K., & Pal, S. (2021). Traffic Monitoring System in Smart Cities Using Image Processing. Smart Innovation, Systems and Technologies, 213SIST, 397-405. Springer, Singapore.
7. Verma, A. K., Pal, S., & Kumar, S. (2021). Prediction of different classes of skin disease using machine learning techniques. Advances in Intelligent Systems and Computing, 1168, 91-100. Springer, Singapore.
8. Aggrawal, R., Pal, S. (2020) Sequential Feature Selection and Machine Learning Algorithm-Based Patient's Death Events Prediction and Diagnosis in Heart Disease. SN COMPUT. SCI. 1(6), 344 https://doi.org/10.1007/s42979-020-00370-1
9. Yadav, D. C., & Pal, S. (2020). Prediction of heart disease using feature selection and random forest ensemble method. International Journal of Pharmaceutical Research, 12(4), 56-66.
10. Chaurasia, V., & Pal, S. (2020). Applications of machine learning techniques to predict diagnostic breast cancer. SN Computer Science, 1(5), 270, 1-11.
11. Chaurasia, V., & Pal, S. (2020). COVID-19 pandemic: ARIMA and regression model-based worldwide death cases predictions. SN Computer Science, 1(5), 288, 1-12.
12. Yadav, D. C., & Pal, S. (2020). Calculating diagnose odd ratio for thyroid patients using different data mining classifiers and ensemble techniques. Int J of Advanced Trends in Computer Science and Engineering, 9(4), 5463-5470.
13. Singh, R., & Pal, S. (2020). Machine Learning Algorithms and Ensemble Technique to Improve Prediction of Students Performance. International Journal of Advanced Trends in Computer Science and Engineering, 9(3), 3970-3976.
14. Yadav, D. C., & Pal, S. (2019). Decision tree ensemble techniques to predict thyroid disease. International Journal of Recent Technology and Engineering, 8(3), 8242-8246.
15. Chaurasia, V., & Pal, S. (2019). Skin diseases prediction: binary classification machine learning and multi model ensemble techniques. Research Journal of Pharmacy and Technology, 12(8), 3829-3832.
16. Verma, A. K., Pal, S., & Kumar, S. (2019). Classification of skin disease using ensemble data mining techniques. Asian Pacific journal of cancer prevention: APJCP, 20(6), 1887.
17. Yadav, D. C., & Pal, S. (2019). To generate an ensemble model for women thyroid prediction using data mining techniques. Asian Pacific journal of cancer prevention: APJCP, 20(4), 1275.

18. Kumar, V., Pal,S. & Tiwari, B.B. (2019). Phyto-Pharmacological Appraisal of Herbal Crude Drugs. International Journal Of Biology And Biomedical Engineering, 13, 138-148.
19. Verma, A. K., Pal, S., & Kumar, S. (2019). Comparison of skin disease prediction by feature selection using ensemble data mining techniques. Informatics in Medicine Unlocked, 16, 100202.
20. Chaurasia, V., Pal, S., & Tiwari, B. B. (2018). Chronic kidney disease: a predictive model using decision tree. Int J Eng Res Technol, 11(11), 1781-1794.
21. Yadav, R.S., Ahmed, P., Soni, A.K. and Pal, S., 2014. Academic performance evaluation using soft computing techniques. Current Science, Vol. 106(11), p.1505.

TOTAL NO. OF PAPER PRESENTATIONS IN SEMINAR/CONFERENCES: 51

TOTAL NO. OF REFRESHER/ORIENTATION/FDP: 25

ADMINISTRATIVE DUTIES:
- Head Dept. of Computer Applications (2002-2006 and 2011 to till date).
- Nodal Officer, ABACUS-UP (2022-till date).
- Liaison Officer with the welfare of OBCs (2021-till date).
- Member, Online Education and LMS Cell (2021-till date).
- Member, Executive Council (2019-20).
- Member Academic Council (2013-14, 2021-22)
- Technical Advisor for Interview, UPPSC, Prayagraj. (2021)
- Nodal Officer, Digital Library UP Higher Education (2020 to till date).
- Member Anti-Ragging Squad (2016-till date).
- Nodal Officer, AISHE, VBS Purvanchal University, Jaunpur (2011-2019).
- Centre Superintendent, Campus Examination (2015-2020).
- Centre Superintendent, Examination PCS/UPTET/TGT/PGT/B.Ed. (2020-till date).
- Member, Library Committee (2015-till date).
- Convener, Board of Studies, MCA, BCA, M.Sc.(Computer Science).

(Dr. Saurabh Pal)