Dr. SANAT KUMAR SAHU
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TEACHING EXPERIENCE

➢ Assistant Professor and Head of Department in Computer Science Govt. V.Y.T. P. G. Autonomous College Durg (C.G.) from **03-01-2023** to **till date.**

➢ Assistant Professor and Head of Department in Computer Science, Govt. Kaktiya P.G. College Jagadalpur (C.G.) from **25-11-2014** to **02.01. 2023.**

➢ Assistant Professor (Section - 28) in Computer Science, Kalyan PG College ,Bhialai Nagar (C.G.) from **12.04.2010** to **24.11.2014**.

ACADEMIC PROFILE

DOCTOR OF PHILOSOPHY (COMPUTER SC.) Dept. of Comp. Science & Information Tech. Bilaspur (C.G.) Dr. C. V. Raman University, Bilaspur(C.G.).	**2020**
MASTER OF PHILOSOPHY(COMPUTER SC.) Dept. of Comp. Science & Information. Tech. Bilaspur (C.G.) Dr. C. V. Raman University, Bilaspur(C.G.).	**2009**
MASTER OF COMPUTER APPLICATION (MCA) Dept. of Comp. Science & Information. Tech. Bilaspur (C.G.) Guru Ghasidas University, Bilaspur(C.G.).	**2008**
BACHELOR OF SCIENCE (COMPUTER SC.) CSAC Pamgarh Guru Ghasidas University, Bilaspur (C.G.)	**2005**
HIGHER SECONDARY (MATHEMATICS) Kisan Higher Secondary school, Kosa, Janjgir -Chmapa(C.G.) Chhattisgrah Board Of Secondary Education, Raipur.	**2002**
SENIOR SECONDARY Kisan Higher Secondary school, Kosa, Janjgir -Chmapa(C.G.) Madhay Pradesh Board Of Secondary Education, Bhopal	**2000**

RESEARCH AREA

❖ Data Mining

❖ Machine learning

❖ Feature Selection and Optimization

RESEARCH PUBLICATION (JOURNAL/BOOK CHAPTER/CONFERENCE PAPER)

1. Verma, P., **Sahu, S. K.** & Awasthi, V. K.; (2023). Deep Neural Network With Feature Optimization Technique for Classification of Coronary Artery Disease. Handbook of Research on Computer Vision and Image Processing in the Deep Learning Era. Pp. 257—269. IGI Global

2. **Sahu, S. K.** & Verma, P., (2022). Classification of autistic Spectrum Disorder Using Deep Neural Network with Particle Swarm Optimization. International Journal of Computer Vision and Image Processing, Vol.12 Issue 1, IGI Global **(UGC-CARE List)**

3. Verma, P.; Awasthi, V. K.; **Sahu, S.K**.; Shrivas, A.K.(2022) Coronary Artery Disease Classification Using Deep Neural Network and Ensemble Models Optimized by Particle Swarm Optimization,International Journal of Applied Metaheuristic Computing (IJAMC). IGI Global **(SCOPUS/WOS)**

4. **Sahu, S. K.,** & Verma, P. (2022). Stacked Auto Encoder Deep Neural Network with Principal Components Analysis for Identification of Chronic Kidney Disease. Machine Learning and Deep Learning Techniques for Medical Science, 385–395. https://doi.org/10.1201/9781003217497-19

5. Awasthi, V. K., Shrivas, A. K., & **Sahu, S. K. (2022).** Stacked Generalization Based Ensemble Model for Classification of Coronary Artery Disease, 1, 57–65. Springer Nature Switzerland AG 2022 **(SCOPUS/WOS)**

6. Sahu, S. K. (2021). Classification of Pulsar Candidates Using an Ensemble Model. International Journal of Computer Sciences and Engineering, 9(8), 81–83. https://doi.org/10.26438/ijcse/v9i8.8183

7. Verma, P., Awasthi, V. K., & **Sahu, S. K. (2021).** A Novel Design of Classification of Coronary Artery Disease Using Deep Learning and Data Mining Algorithms. Revue d ' Intelligence Artificielle, 35(3), 209–215. **(SCOPUS)**

8. Tripathi, N., Goshisht, M. K., **Sahu, S. K.,** & Arora, C. (2021). Applications of artificial intelligence to drug design and discovery in the big data era: a comprehensive review. Molecular Diversity, 25(3), 1643–1664. https://doi.org/10.1007/s11030-021-10237-z**(SCOPUS/WOS)**

9. Verma, P., Awasthi, V. K., & **Sahu, S. K. (2021)**. An Ensemble Model With Genetic Algorithm for Classification of Coronary Artery Disease. International Journal of Computer Vision and Image Processing, 11(3), 70–83. https://doi.org/10.4018/ijcvip.2021070105 **(UGC-CARE)**

10. Verma, P., Awasthi, V. K., & **Sahu, S. K. (2021)**. Classification of Coronary Artery Disease Using Deep Neural Network with Dimension Reduction Technique. In 2021 2nd International Conference for Emerging Technology (INCET) (pp. 1–5). Belgaum, India: IEEE. https://doi.org/10.1109/incet51464.2021.9456322 **(SCOPUS)**

11. Verma, P., Awasthi, V. K., & **Sahu, S. K. (2021)**. Classification of Coronary Artery Disease using Multilayer Perceptron Neural Network. International Journal of Applied Evolutionary Computation, 12(3), 35–43. https://doi.org/10.4018/IJAEC.2021070103

12. **Sahu, S. K.(2021)**. Early –Stage Diabetic Risk Detection Using Data Mining Techniques with Particle Swarm Optimization, IJCSE

13. **Sahu, S. K.(2021)**. Diabetec Risk Detection Review Using Machine Learning Techniques, IJCSE

14. **Sahu, S. K.**, & Chandrakar, P. K. (2020). Classification of Chronic Kidney Disease with Genetic Search Intersection Based Feature. In Advances in Intelligent Systems and Computing 1122 (Vol. 1, pp. 11–21). Springer Nature Switzerland AG 2020 **(SCOPUS/WOS)**

15. **Sahu, S. K.**, & Shrivas, A. K. (2020). Comparative Study of Classification Models with Genetic Search Based Feature Selection Technique. Cognitive Analytics, 773–783. https://doi.org/10.4018/978-1-7998-2460-2.ch040 **(SCOPUS)**

16. Shrivas, A. K., & **Sahu, S. K. (2019)**. Classification of Chronic Kidney Disease using Combination Feature Selection Techniques and Classifiers, 7(3), 114–117. (PEER REVIEWED)

17. **Sahu, S. K.** , & Shrivas, A. K. (2019). A Proposed Ensemble Model with Feature Selection Technique for Classification of Chronic Kidney Disease,IJCSE

18. **Sahu, S. K.**, & Shrivas, A. K. (2018). Classification of Chronic Kidney Disease using Feature Selection Techniques, International Journal of Computer Sciences and Engineering, Vol. 06, Issue 05, pp. 649-653.

19. **Sahu, S. K.**, & Shrivas, A. K. (2018). Analysis and Comparison of Clustering Techniques for Chronic Kidney Disease With Genetic Algorithm. International Journal of Computer Vision and Image Processing, 8(4), 16–25. IGI Global. https://doi.org/10.4018/IJCVIP.2018100102 **(UGC-CARE)**

20. **Sahu, S. K.**, & Shrivas, A. K. (2018). Comparative Study of Classification Models with Genetic Search Based Feature Selection Technique, 9(3). IGI Global. https://doi.org/10.4018/IJAEC.2018070101 (PEER REVIEWED)

21. Shrivas, A. K., **Sahu, S. K.**, & Hota, H. S. (2018). Classification of Chronic Kidney Disease with proposed Union Based Feature Selection Technique, (2007), 503–507 Elsevier SRRN

22. Shrivas, A. K., **Sahu, S. K.**, & Singhai, S. K. (2017). Decision support system for classification of chronic kidney disease with principle component analysis, 14(2), 105–110.)

23. **Sahu, S.K.** (2021) Novel Ensemble Model With Genetic Algorithm and Principal Components Analysis for Classification of Chronic Kidney Disease12, International Journal of Applied Evolutionary Computation (IJAEC) (4). IGI Global

24. **Sahu, S. K.(2021)**. A Novel Ensemble Model Classification of Chronic Kidney Disease with Selected Features and Components , International Journal of Computer Sciences and Engineering, Vol. 09, Issue 09.

25. **Sahu, S. K.**, & Shrivas, A. K. (2018). Analysis and Comparison of Clustering Techniques for Chronic Kidney Disease With Genetic Algorithm. Research Anthology on Multi-Industry Uses of Genetic Programming and Algorithms. IGI Global.

26. Verma, P. ,Awasthi, V. K., Shrivas, A. K., & **Sahu, S. K. (2022)**.Deep Neural Network with Feature Optimization technique for Classification of Coronary Artery Disease, Handbook of Research on Computer Vision and Image Processing in the Deep Learning Era, IGI Global 2023

27. **Sahu, S. K. (2016)**. SDIS-018 Data Models and Transaction Properties of NoSQL Databases, (4), 88–97.

28. **Sahu, S. K. (2015)**. Need for Eco-Friendly Architecture of Computing and Telecommunications Devices : Green Computing Perspective, (7), 20–22.IJTEE

WORKSHOP/ FDP ATTEND

1. Attended two week online **FDP** on "Natural Language Processing" jointly organized by Electronics and ICT Academies during February7-18, 2022 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India

2. Attended two week online **FDP** on "ICT in teaching learning and Research" jointly organized by Electronics and ICT NIT Patna, SOS Computer Application Bastar University Jagdalpur(C.G.), during April 20 – 29, 2019 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India

3. Attended online **FDP** on "LaTex" organized by LCIT is association with Spoken Tutorial IIT Bombay Academies during June 06 - July 12, 2020

Refreshers/Orientation Program

I. Participated into the 2 week Refresher Course on "**Managing Online Classes and Co-Creating MOOCS"** organized by Ramanujan College, University of Delhi, (Under The Scheme of Pandit Madan Mohan Malviya National Mission on Teachers Teaching) India during 06-09-2023 to 20-09-2023.

II. Participated into the 2 week Refresher Course on "**First Online Multidisciplinary Refresher Course on E-Governance Program by using LINUX and GIT**" organized by Government First Grade College , Harihar, (Under The Scheme of Pandit Madan Mohan Malviya National Mission on Teachers Teaching) India during 17-08-2020 to 30-08-2020.

III. Participated into the 2 week Refresher Course on "**FDP in Computer Science & Information Technology**" organized by UGC-HRDC, Maulana Azad National Urdu University, Hyderabad , India during 25-07-2019 to 07-08-2019.

IV. Participated into the 4 week Orientation Program on "**Quality Of Higher Education: Extension Method**" organized by UGC-HRDC, Pt. Ravishakar Shukla University Raipur, Chhattisgarh, India during 25-02-2016 to 19-03-2016.

Paper Presented on National and International Conference

- Presented paper entitled "Classification Of Coronary Artery Disease Using Proposed Bagging Ensemble Model". Interdisciplinary Research in Applied Mathematics, Management and Technology (IRAMMT)organized by American Institute of Management and Technology (AIMT), USA, a subsidiary of The Global Knowledge Foundation (GKF), Inc., **USA. International(Abroad)** on date 20-21 June 2021

- Presented paper entitled "Classification of Coronary Artery Disease Using Fature Optimization as Ant Colony Optimization" in Two Day International Conference on 'ICIRSMT-2021' organized by Atal Bihari Vajpayee University, Bilaspur, India on 27-28 December 2021.

- Presented paper entitled "Stacked Generalization based Ensemble model for classification of Coronary Artery Disease" in Two Day International Conference on 'ICIRSMT-2020' organized by Atal Bihari Vajpayee University, Bilaspur, India on 04-05 January 2020.

- Presented paper entitled "Comparison of Various feature ranking technique on Chronic Kidney Disease" in Day Two National Seminar organized by Rungta College Bhilai(C.G.) India on 05-06 January 2018

- Presented paper entitled "Data models and Transaction processing in No-Sql database" on Day Three Day International Seminar organized by Chirst College Jagdalpur (C.G.) 4-6 India January 2016.

- Presented paper entitled "Efficient and Eco-Friendly Information and Communication technology : Green Computing " in Day Two National Seminar organized by Govt. Kaktiya P.G. College Jagdalpur Sponsored by UGC& CGCSOT on 06-07 February 2015

- Presented paper entitled "Implementing delivery transaction with E-commerce" in Day Two National Seminar organized by Kalyan P.G. College Bhilai 02-03 December 2011

RESOURCE PERSON/SESSION CHAIRS/CONFERENCE CHAIR/CONVENER/CO-CONVENER

1. **Convener** of National Workshop in data analytic using R ", held on 23-24 February 2019 at Govt kaktiya P.G. College Jagdalpur(C.G.).
2. **Organizing Secretary** of National Seminar in Computer Science and emerging techniques ", held on Novmebr 2011 at Kalyan P.G. College BhilaiNagar(C.G.).
3. **Invited lecture delivered on** "Knowledge Enhancement Programme in Computer Security Preventing Viruses" Mahant Laxminarayan Das College, Raipur (C.G.) on date 20-02-2019
4. **Invited lecture delivered on** "Machine Learning" Govt. Digvijay Autonomous College, Rajnandgoan (C.G.) on date 12-12-2023

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