

DR. GIRISH KUMAR SINGH

D/O Computer Science & Applications,
Dr Harisingh Gour University,
Sagar, M.P.-470003.
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SUMMARY:

- 14years of experience in R&D, Teaching and Software Development.
- Good command in Data Mining, Artificial Intelligence, Design and Analysis of Algorithms, Data Structures and Theory of Computation.

I am confident, dependable and can execute any type of research work related to any of the above fields. I can learn any new technology in very short time. I have a calm and amicable nature and have pleasing personality.

EDUCATION:

- ❖ Doctor of Philosophy (PhD) in Computer Science in 2008 from Jawaharlal Nehru University, New Delhi, India. Thesis: Rough Set Theory for Data Mining under the supervision of Dr Sonajharia Minz awarded in 2008.
- ❖ Master of Technology (M. Tech.) in Information Technology (December 2002) from Tezpur University, Tezpur, Assam, India. Special Problem: Spatial Data Clustering and Its Application in Information Retrieval (CGPA 8.8/10.0, Gold Medalist)
- ❖ Master of Science (M. Sc.) in Mathematics (July 2001) from Jamia Millia Islamia, New Delhi, India. (74%, Third position in the University).
- ❖ Post Graduate Diploma in Computer Application (April 1999) from Jamia Millia Islamia, New Delhi, India. (75%, Second Position in the University).
- ❖ B.Sc. in Physics, Statistics and Mathematics from the Purvanchal University, Jaunpur, Uttar Pradesh, in 1996 with an aggregate of 65%.

EXPERIENCE:

- Working as Assistant Professor in D/O Computer Science & Applications, Dr Harisingh Gour University, Sagar (3rd June 2013 to till date).
- Assistant Professor in D/O Computer Science, Central University of Bihar, BIT Campus Patna (2nd September 2011 to 19th October 2012).
- Lecturer in D/O Computer Application, UIET, CSJM University Kanpur. (20th August 2007 to 1st September 2011).
- Guest faculty in School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi (Feb 2005 to May 2007).
- Guest Faculty in Jamia Hamdard University New Delhi. (Aug 2005 to Dec 2005).

HONORS:

- Awarded Gold Medal for Top Rank in M. Tech in Information Technology at the Tezpur University.
- Second Rank in PGDCA in the Jamia Millia Islamia New Delhi, INDIA, 1999.

- Third Rank in M.Sc. in the Jamia Millia Islamia New Delhi, INDIA, 2001.
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PERSONAL DETAILS:

- **Father's name** : Shri Jagannath Singh.
 - **Permanent Address** : Vill. & Post – Babubel; Distt. –Ballia (U.P)-277402
 - **Date of birth** : 01-01-1975
 - **Gender** : Male
 - **Category** : UR
 - **Nationality** : Indian.
 - **Marital status** : Married.
 - **Passport** : AE843818
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Patent:

1. MULTIPLE OPERATED DOMESTIC INSTRUMENT-TOILET CLEANER (MODI-TOILET CLEANER), National, File No 202011035844 A
2. HYBRID POWER SUPPLY AC THELA (HPSAT) National, File No 202011037949A

RESEARCH PUBLICATION:

1. Gaurav Gupta, Neha Gupta, Ankit Gupta, Pankaj Vaidya, Girish Kumar Singh, Varun Jaiswal, “Prediction of Alzheimer Associated Proteins (PAAP): A perspective to understand Alzheimer Disease for Therapeutic Design”, International Journal of Bioinformatics Research and Applications. (Accepted). ISSN online 1744-5493, print 1744-5485
2. Parvendra Kumar, Milap C hand Sharma, Rakesh Saini, Girish Kumar Singh “Climatic variability at Gangtok and Tadong weather observatories in Sikkim, India, during 1961–2017”, Scientific Reports 10, 15177 (2020). <https://doi.org/10.1038/s41598-020-71163-y>.
3. Shrabanti Mandal, Girish Kumar Singh, “LSA Based Text Summarization”, International Journal of Recent Technology and Engineering, Vol. 9, No. 2, pp 150-156, July 2020, ISSN: 2277-3878.
4. Nikita Kashyap, Dharmendra Kumar Singh, Girish Kumar Singh, “Review of Digital image processing techniques for detection of diabetic retinopathy”, Journal of Emerging Technologies and Innovative Research, Vol. 6, No. 3, pp 559-563, March 2019. ISSN 2349-5162.
5. Nikita Kashyap, Dharmendra Kumar Singh, Girish Kumar Singh, “A Novel Approach for Detecting and Grading Diabetic Retinopathy using Wavelet Transform and Artificial Neural Network”, International Journal of Research in Electronics and Computer Engineering, Vol. 7, No. 2, pp. 100-104, April 2019, ISSN: 2393-9028 (Print), 2348-2281 (Online).
6. Girish Kumar Singh, Shrabanti Mandal, “Discretization of Unlabeled Data using RST & Clustering”, Journal of Informatics and Mathematical Sciences, Vol. 11, No. 1, pp. 31–40, January 2019, ISSN 0975-5748 (online); 0974-875X (print).
7. Shrabanti Mandal, Girish Kumar Singh, Anita Pal, “A Constraints Driven PSO Based Approach for Text Summarization” Journal of Informatics and Mathematical Sciences, Vol. 10, No. 4, pp. 703–714, October 2018, ISSN 0975-5748 (online); 0974-875X (print).

8. Prabhat Kumar, Girish Kumar Singh, "ICT and Weather Prediction for Agriculture", International Journal of Linguistics & Computing Research, Vol. 1, issue no.1, pp: 6-10, ISSN 2456-8848.
9. Prabhat Kumar, Girish Kumar Singh, "Conflicting Minerals in Computing Devices", International Journal of Linguistics & Computing Research, Vol. 1, issue no. 2, pp: 6-10, ISSN 2456-8848.
10. Shrabanti Mandal, Girish Kumar Singh, Anita Pal, "A Hybrid Text Summarization Approach", Journal of Informatics and Mathematical Sciences, Vol. 9, issue no. 3, pp. 547-555, March 2017, ISSN 0974-875X.
11. Girish Kumar Singh, Shrabanti Mandal, "Cluster Analysis using Rough Set Theory", Journal of Informatics and Mathematical Sciences, Vol. 9, issue no. 3, pp. 509-520, March 2017, ISSN 0974-875X.
12. Ranjit Rajak, Shobhit Gupta, Girish Kumar Singh and Sanjay Jain, "A Novel Approach for Task Scheduling in Parallel Computing using Priority Attributes", Smart Computing Review, vol. 5, issue no. 4, pp. 356-367, August 2015, ISSN 2234-4624.
13. Shobhit Gupta, Ranjit Rajak, Girish Kumar Singh and Sanjay Jain, "Arbitrary Processor Network Scheduling Algorithms in Parallel Computing", Smart Computing Review, vol. 5, issue no. 3, pp. 126-134, June 2015, ISSN 2234-4624.
14. Shobhit Gupta, Ranjit Rajak, Girish Kumar Singh and Sanjay Jain, "Review of Task Duplication Based (TDB) Scheduling Algorithms", Smart Computing Review, vol. 5, issue no. 1, pp. 67-75, January 2015, ISSN 2234-4624.
15. Girish Kumar Singh and Sonajharia Minz, "Granulation using Clustering and Rough Set Theory & its Tree Representation", International Journal of Computer and Information Engineering, Computing and Technology, vol. 1:5, pp. 328-333, January 2007, ISSN 2279-0764.

Paper in National Conference:

1. Girish Kumar Singh and Sonajharia Minz, "Quantitative Association Rule Using Granulation Tree", National Conference on Computing for National Development (INDIACom-07), pp-541-544, February 2007, ISBN 978-81-904526-0-1.

Paper in International Conference:

1. Nikita Kashyap, Dharmendra Kumar Singh, Girish Kumar Singh, "Mobile Phone Based Diabetic Retinopathy Detection System Using ANN-DWT", International Conference on Electrical, Computer and Electronics (UPCON), 26-28 October 2017, pp. 463-467, ISBN: 978-1-5386-3004-4.
2. Om Prakash Sharma and Girish Kumar Singh, "Customer Behavior Prediction Using Data Mining", International Conference on Global Competitiveness and Corporate Governance Imperatives in emerging Economics, pp. 93-107, 15-16 February 2013, ISBN 978-91-81583-89-0.
3. Ravindra Nath, Girish Kumar Singh and Anil Kumar Yadav, "Binary String Matching Algorithm", International Conference on Reliability, Infocom Technology and Optimization ICRITO, 1-3, November 2010, pp 702-707, ISBN: 978-81-909732-2-9.

4. Girish Kumar Singh and Sonajharia Minz, "Discretization Using Clustering and Rough Set Theory", International Conference on Computing: Theory and Applications (ICCTA'07), March 5-7, 2007, pp. 330-336, 2007, ISBN 978-0-7695-2770-3.
5. G Singh, B Bora and D K Bhattacharyya, "Spatial Data Mining and Its Application in Information Retrieval", International Conference on Recent Trends in Probability and Statistics: Theory and Applications, December 31, 2002-January 2, 2003, Department of Statistics, Guwahati University, Assam, India.2003.

Paper presented in National Conference:

1. Girish Kumar Singh, "Cluster Analysis using Rough Set Theory", National Conference on Current Scenario in Pure and Applied Mathematics at Kongunadu Arts and Science College, Coimbatore, 22-23 December, 2016.
2. Girish Kumar Singh, "Effect of Computer on Society", National seminar – Marriage Family-Challenges, Changes and Trends, C S J M University, Kanpur, 15-16 January 2006.

Paper presented in International Conference:

1. Rahul Jain, Girish Kumar Singh, "Clustering Based Hybrid Approach for Multiclass Classification Using SVM", International Conference on Computing and Engineering, at D. I. E. M. S. Aurangabad (Maharashtra), 09-11 January, 2019.
2. Girish Kumar Singh, Rahul Jain, Prabhati Dubey, "Study of Classification Techniques on Medical Datasets", International Conference on Computing, Communication & Signal Processing (ICCASP-2018) at Dr. Babasaheb Ambedkar Technological University, Lonere (Maharashtra), 26-27 January, 2018.
3. Girish Kumar Singh, Rahul Jain, Prabhati Dubey, "Majority Based Classification in Distributed Environment", Soft-Computing: Theories and Application (SoCTA-2017) at Bundelkhand University, Jhansi, 22-24 December, 2017.
4. Om Prakash Sharma and Girish Kumar Singh, "Customer Behavior Prediction Using Data Mining", International Conference on Global Competitiveness and Corporate Governance Imperatives in emerging Economics, Ansal University Gurgaon, 15-16 February, 2013.
5. Girish Kumar Singh, "Rough Set Theory: A Technique to Data Mining", 17th Annual Conference of Society of Statistics, Computer and Applications, at Birla Institute of Management and Technology (BIMTECH), Bhubaneswar, 23 - 25 February 2015.

Poster Presentation:

1. Girish Kumar Singh, "Use of Light in Computing", National Symposium on Horizons of Light in Molecules, Materials and Daily Life, Dr Harisingh Gour University Sagar, December 18-19, 2015

Invited Talk:

1. "Rough Set Theory & Its application" in Adina Group of Institution, Sagar, in ADINA Young Scientist Award 2016 on date 05-03-2016.
2. "हिंदी को वैश्विक भाषा बनाने में कंप्यूटर का योगदान" in Arbindo College (University of Delhi) in राष्ट्रीय संगोष्ठी "वैश्वीकरण और भक्ति काव्य" September 18-19, 2015.

Book chapter:

1. Nikita Kashyap, Dharmendra Kumar Singh, Girish Kumar Singh, "Mobile phone-based diabetic retinopathy detection system", Diabetes and Fundus OCT, edited by Ayman S. El-Baz, Jasjit S. Suri, Elsevier, pp 113-132 (2020), ISBN 978-0-12-817440-1.
2. Rahul Kumar Jain, Girish Kumar Singh, "Clustering-Based Hybrid Approach for Multiclass Classification Using SVM", Computing in Engineering and Technology, edited by Iyer, B., Deshpande, P.S., Sharma, S.C., Shiurkar, U., Springer, Singapore, pp 367-377 (2019), ISBN 978-981-329-515-5.
3. Shrabanti Mandal, Girish Kumar Singh, Anita Pal, "Text Summarization Technique by Sentiment Analysis and Cuckoo Search Algorithm", Computing in Engineering and Technology, edited by Iyer, B., Deshpande, P.S., Sharma, S.C., Shiurkar, U., Springer, Singapore, pp 357-366 (2019), ISBN 978-981-329-515-5.
4. Nikita Kashyap, Dharmendra Kumar Singh, Girish Kumar Singh "Color Histogram and Smartphone-Based Diabetic Retinopathy Detection System", Engineering Vibration, Communication and Information Processing Springer, Edited by Kanad Ray, S. N. Sharan, Sanyog Rawat, S. K. Jain, Sumit Srivastava, Anirban Bandyopadhyay, Springer Singapore, pp 669-678, vol 478, 2019, Print ISBN 978-981-13-1641-8, Online ISBN 978-981-13-1642-5.
5. Shrabanti Mandal, Girish Kumar Singh, Anita Pal, "PSO-Based Text Summarization Approach Using Sentiment Analysis", Computing, Communication and Signal Processing - Advances in Intelligent Systems and Computing, Edited by B. Iyer, S. Nalbalwar, N. Pathak, Springer, Singapore, pp 845-854, vol 810, 2018, Print ISBN 978-981-13-1512-1, Online ISBN 978-981-13-1513-8.
6. Girish Kumar Singh, Rahul K. Jain, Prabhati Dubey, "Study of Classification Techniques on Medical Datasets", Computing, Communication and Signal Processing - Advances in Intelligent Systems and Computing, Edited by B. Iyer, S. Nalbalwar, N. Pathak, Springer, Singapore, pp 557-565, Vol 810, 2018, Print ISBN 978-981-13-1512-1, Online ISBN 978-981-13-1513-8.
7. Girish Kumar Singh, Rahul K. Jain, Prabhati Dubey, "Majority-Based Classification in Distributed Environment", Soft Computing: Theories and Applications. Advances in Intelligent Systems and Computing, Edited by K. Ray, T. Sharma, S. Rawat, R. Saini, A. Bandyopadhyay, Springer, Singapore, pp 321-332, Vol 742, 2018, Print ISBN 978-981-13-0588-7, Online ISBN 978-981-13-0589-4.
8. Girish Kumar Singh, "Probability Based Machine Learning", Artificial Intelligence and Natural Language Processing, Edited by Sudhir K Mishra, Cambridge Scholars Publishing, pp-242-257, 2018, ISBN: 978-1-5275-0766-1.
9. Girish Kumar Singh, "Machine Learning", Artificial Intelligence and Natural Language Processing, Edited by Sudhir K Mishra, Cambridge Scholars Publishing, pp-214-241, 2018, ISBN: 978-1-5275-0766-1.
10. Girish Kumar Singh, "Language and Grammar for Computation", Artificial Intelligence and Natural Language Processing, Edited by Sudhir K Mishra, Cambridge Scholars Publishing, , pp-193-213, 2018, ISBN: 978-1-5275-0766-1.
11. Girish Kumar Singh, "Introduction to Artificial Intelligence", Artificial Intelligence and Natural Language Processing, Edited by Sudhir K Mishra, Cambridge Scholars Publishing, pp-171-192, 2018, ISBN: 978-1-5275-0766-1.

12. Girish Kumar Singh, "Application of Data Mining in Cyber Security", India's Cyber Security, Edited by Saroj Kumar Rath, Synergy Books India, PP 77-87, 2014, ISBN: 978-93-82059-34-9.
13. Girish Kumar Singh and Sonajharia Minz, "Attribute based Hierarchical Clustering Algorithm", Networks, Security and Soft Computing: Trends and Future Directions, Edited by D.K. Bhattacharyya and Shyamanta M. Hazarika, Narosa Publishing House, New Delhi, India, PP 177-183, 2007, ISBN 978-81-7319-868-7.
14. Girish Kumar Singh and Sonajharia Minz, "Granulation using Clustering and Rough Set Theory", Methods and Models in Computing (NCM2C), Edited by D P Vidyarthi, Macmillan India Limited, PP 152-160, 2007, ISBN 0230630197.

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