

CURRICULUM- VITAE



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Dr. HARISH KUMAR SHAKYA

OBJECTIVE: *I would like to use my skills as professional to work in an environment where I can apply my knowledge and creative skills that help in both personal and organizational growth. “Teaching means always learning”.*

QUALIFICATION & SKILL:

➤ **ACADEMIC:**

Degree	Year	Subject	University/Institution
PhD	2018	CSE	IIT (BHU), Varanasi
ME	2009	CSE	Shri G S Institute of Technology, Indore
BE	2005	IT	RJIT BSF ACADEMY, Gwalior
12 th	1999	PCM	MP BOARD
10 th	1997	ALL	MP BOARD

➤ **TEACHING EXPERIENCE:**

Position held	Name of the Institute	From	To	Pay Scale
Lecturer	NITM, Gwalior	23/12/2008	16/01/2010	8000-275-13500/5400
Assistant Professor	DIT, University, Dehradun	20/01/2010	12/09/2011	15600-39100/6000
Research Scholar (Pursuing PhD)	IIT-BHU, Varanasi	15/09/2011	30/03/2017	28000/-+HRA
Assistant Professor	Bapatla Engineering College [Autonomous], Guntur District	30/06/2018	20/10/2019	15600-39100/6000
Assistant Professor -II	Amity University Gwalior	24/10/2019	Till Date	15600-39100/6000

SOFTWARE PROGRAMMING SKILLS:

- Languages: C++, C, JAVA Technology
- Microsoft Technologies: Visual Basic 6.0
- Database: PosgreSQL, Oracle(SQL,PL/SQL)
- Operating Systems: Windows98 / 2000 / XP /Windows 7/8/11
- Software : MATLAB, R-Programming, Gephi, NodeXL, LaTeX
- Tools : Orange, Q-GIS, KNIME, Arduino IDE

PhD THESIS:

- THESIS TITLE: **Community Detection in Social Networks using Improved Evolutionary Algorithms**
- SUPERVISOR NAME: **Dr Bhaskar Biswas (Associate Professor)**
- ORGANIZATION NAME: **Indian Institute of Technology (BHU), Varanasi**
- YEAR OF AWARD: **2018**

MASTER DEGREE PROJECT:

- PROJECT ENTITLED *"Design & Implementation of Relational Database Design Tool "* [ME THESIS]
- SUPERVISOR NAME: **Dr Aruna Tiwari (Associate Professor) IIT-INDORE**
- PROJECT ENTITLED *"Implementation of Base Converter utility based on UID principles "* (First Year Project)
- PROJECT ENTITLED *" Implementation of Perceptron Model and Back Propagation algorithm "* (First Year Project)

DEGREE PROJECT:

- PROJECT ENTITLED *"Boot up Security of win-98"*
- PROJECT ENTITLED *"Hotel Management System, Astrology based System , Hospital Management System"*

EXTRA CURRICULAR ACTIVITIES:

- Qualified in "GATE-2006" with 312 (91.45 percentile) score.
- UGC JRF National Fellowship Award (2012-2014)
- UGC SRF National Fellowship Award (2014-2017)
- Training Undergone:*
- Two week industrial training in B.S.N.L Gwalior
- Two week industrial training in Ministry of Small Scale Industries Gwalior

Professional Membership:

ACM Membership ID # 1718955, IEEE Membership ID # 93946210

IEICE Membership ID # 1783700, IEI (India) Membership ID # AM1757078

IETE Membership ID # AM500866, IAENG Membership ID # 195822

ICSES Membership ID # 1910, CSTA Membership ID # 50227342

SAISE Membership ID # 20180607001, IACSIT Membership ID # 80347113

MIR Labs Membership ID #1621

REFERENCES:

Dr. Bhaskar Biswas

Associate Professor, Department of Computer Science and Engineering,

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Dr. Sanjay Kumar Singh

Professor, Department of Computer Science and Engineering,

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Dr. Aruna Tiwari

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Workshop/Training Programs:

- [1] **INTERNATIONAL WORKSHOP** attended on SOFT COMPUTING AND APPLICATIONS (ISCA'15), 25-27,MARCH, 2015 an associated Institution of INDIAN STATISTICAL INSTITUTE & SOUTH ASIAN UNIVERSITY, NEW DELHI.
- [2] **NATIONAL WORKSHOP** attended on “MATHEMATICAL MODELING AND SIMULATION”, from 20.03.2015 to 21.03.2015, Organized by Teaching-learning Cell and Department of Applied mathematics, IIT-(BHU), Varanasi.
- [3] **NATIONAL SYMPOSIUM** attended on “RESEARCH METHODOLOGY FOR FUTURE RESEARCHERS”, to 22.03.2015, Organized by Teaching- learning Cell and Department of Electronics Engineering, IIT-(BHU), Varanasi.
- [4] **Author WORKSHOP** attended on “How to Write for and Get Published in Scientific Journals and Publish Manuscripts” **SPRINGER & EDANZ GROUP** in association with IIT, BHU.
- [5] **WORKSHOP** attended on “Training program on ‘LATEX’ from 03/09/2013 to 09/09/2013”, DST- Centre for Interdisciplinary Mathematical Sciences, BHU.
- [6] **WORKSHOP** attended on “Hands on Training Program on 'MATLAB' from 9.12.2013 to 14.12.2013” DST center for interdisciplinary mathematical sciences in association with Banaras Hindu University.
- [7] **International WORKSHOP** attended on MACHINE LEARNING AND TEXT ANALYTICS, 15-24, December, 2013 in association with South Asian University (New Delhi).
- [8] **WORKSHOP** attended on “How to Write for and Get Published in Scientific Journals and Publish Manuscripts” **SPRINGER & EDANZ GROUP** in association with Central Library, BHU.
- [9] **WORKSHOP** attended on GARUDA BOOT CAMP ON NATIONAL COMPUTATIONAL GRID (GBC-2013) in association with **IIT (BHU) & C- DAC**.
- [10] **WORKSHOP** on “Training program on ‘LATEX’ from 15/11/2016 to 25/11/2016”, DST- Centre for Interdisciplinary Mathematical Sciences, BHU.

PATENTS:

- [1]. Patent has been Published in March 2020 by **Dr Harish Kumar Shakya**, Ms Nirupama, Mahima shankar pandey, on the topic “OP-Detection: OBJECTS PATH(OP) STORED IN COMPUTER'S MEMORY INCLUDE A DIRECTED GRAPH OF OBJECT DIRECTORIES” Patent Application No.: 202041007995, Date of Filing: 25/02/2020, and Date of Publication: 06/03/2020.
- [2]. Patent has been Published in May 2020 by **Dr Harish Kumar Shakya**, DR. HARI OM SHARAN, MS. D. JYOTHSNA, MR.V. MALLAIAH, on the topic “ICMD- IOT- Based System: INTELLIGENT CROP MONITORING AND DETECT THE CROP HEALTH USING IOT-

BASED SYSTEM” Patent Application No.: 202011013764, Date of Filing: 29/03/2020, and Date of Publication: 08/05/2020.

- [3]. Patent has been Published in January 2021 by **DR HARISH KUMAR SHAKYA**, UDAY PANWAR, RAJINDER SINGH SODHI, OM PRAKASH SAHU, RAJESH TIWARI, "CNDMP-User-Tracking: USER-TRACKING AND CURRENT-LOCATION NOTIFICATION USING IOT-BASED DEEP, MACHINE LEARNING PROGRAMMING”, Patent Application No.:202021014117, Date of Filing: 30/03/2020 & Date of Publication:29/01/2021
- [4]. Patent has been filed in December 2020 by Pankaj Kumar Mishra, Venkatadri Marriboyina, Divya Gautam, Raghavendra Sharma, **Dr Harish Kumar Shakya**, Saurabh Sharma, on the topic “A USER INTERFACE FOR HEALTH MONITORING UNDER VARIOUS ENTITIES THROUGH A USER DEVICE”, Patent Application No.: 202011055225, Date of Filing: 18/12/2020 & Date of Publication:24/06/2022.

List of PhD Scholars:

S.No.	Name	ENROLL NO.	SUBJECT / TOPIC	Nature of Registration/Date
1	SAURABH SHARMA	A60236419008	<i>A Novel Framework for Cloud Data Categorization Using Machine Learning Technique</i>	JULY 2019/Full Time
2	SURUCHI KARNANI	A60236419004	<i>An Intelligent Threat Detection and Mitigation System For Distributed Denial of Services In Software Distributed Network Environment</i>	JULY 2019/Part Time
3	PINKAL JAIN	A60236320004	<i>Design and Implementation of Privacy Preservation Algorithm in Data Mining Using Machine learning Technique.</i>	JULY 2020/Full Time
4	RANJANA SIKARWAR	A60236321006	<i>NOVEL IMPROVISED APPROACHES FOR COMMUNITY DETECTION IN SOCIAL NETWORK</i>	JULY 2022/Full Time

PUBLICATIONS:

1. **Shakya, H.K.,** Singh, K., More, Y.S. et al. Opposition-Based Genetic Algorithm for Community Detection in Social Networks. **Proc. Natl. Acad. Sci., India, Sect. A Phys. Sci. 92, 251–263 (2022).** [SCI-1.291] <https://doi.org/10.1007/s40010-020-00716-7>
2. **Shakya H K et al. ,**"Internet of Things-Based Intelligent Ontology Model for Safety Purpose Using Wireless Networks", **Wireless Communications and Mobile Computing, Hindawi journal, ISSN:1530-8669** May 2022. [SCI: 2.146] <https://doi.org/10.1155/2022/1342966>
3. Kuldeep Singh, Ajay Kumar, Shashank Sheshar Singh, **Harish Kumar Shakya**, and Bhaskar

- Biswas, "EHNL: An efficient algorithm for mining high utility itemsets with negative utility value and length constraints", in **Information Sciences, Elsevier**, 2019, ISSN: 0020-0255. (SCI, IF 8.233) <https://doi.org/10.1016/j.ins.2019.01.056>
4. Kuldeep Singh, **Harish Kumar Shakya**, Abhimanyu Singh, Bhaskar Biswas, "Mining of high-utility itemsets with negative utility", **Expert Systems, wiley**, ISSN: 1468-0394. (SCIE, IF 2.812) <https://doi.org/10.1111/exsy.12296>
 5. **Harish Kumar Shakya**, Kuldeep Singh, and Bhaskar Biswas "Community Detection in Social Network with Regenerative Genetic Algorithm", **International Journal of Pure and Applied Mathematics**, vol. 118, No. 5 pp. 397-411, 2018. [SCOPUS-0.23]
 6. Suruchi Karnani & **Harish Kumar Shakya** (2022) Mitigation strategies for distributed denial of service (DDoS) in SDN: A survey and taxonomy, *Information Security Journal: A Global Perspective*, DOI: [10.1080/19393555.2022.2111004](https://doi.org/10.1080/19393555.2022.2111004) [SCOPUS]
 7. Saurabh Sharma, **Harish Kumar Shakya**, "A Hybrid Recommendation System of Upcoming Movies Using Improved version of SOM with Hybrid Filtering Methods", 2023 6th IEEE International Conference on Information Systems and Computer Networks (ISCON), 03-04 March 2023, ISSN: 2381-7550. DOI: [10.1109/ISCON57294.2023.10112003](https://doi.org/10.1109/ISCON57294.2023.10112003)
 8. Saurabh Sharma, **Harish Kumar Shakya**, "Recommendation System for Movies Using Improved version of SOM with Hybrid Filtering Methods", 2023 6th International Conference on Information Systems and Computer Networks (ISCON), 03-04 March 2023, ISSN: 2381-7550. DOI: [10.1109/ISCON57294.2023.10112003](https://doi.org/10.1109/ISCON57294.2023.10112003)
 9. Sharma, S., **Shakya, H.K.** (2023). Recommendation Systems for a Group of Users Which Recommend Recent Attention: Using Hybrid Recommendation Model. In: Shaw, R.N., Paprzycki, M., Ghosh, A. (eds) *Advanced Communication and Intelligent Systems. ICACIS 2022. Communications in Computer and Information Science*, vol 1749. Springer, Cham. https://doi.org/10.1007/978-3-031-25088-0_58
 10. Sharma, S., **Shakya, H.K.** (2023), "Hybrid Movie Recommendation System Using Machine Learning", *International Journal of Emerging Technology and Advanced Engineering*, Volume 13, Issue 01, January 2023, ISSN: 2250-2459. DOI: [10.46338/ijetae0123_12](https://doi.org/10.46338/ijetae0123_12)
 11. Sikarwar, R., Singh, S.S., **Shakya, H.K.** (2022). A Review on Community Detection Methods and Algorithms in Social Networks: Open Trends and Challenges. In: Sharma, S., Peng, S.L., Agrawal, J., Shukla, R.K., Le, D.N. (eds) *Data, Engineering and Applications. Lecture Notes in Electrical Engineering*, vol 907. Springer, Singapore. https://doi.org/10.1007/978-981-19-4687-5_40
 12. Saurabh Sharma, **Harish K. Shakya**, Ashish Mishra (2022), "Study and Estimation of Existing Software Quality Models to Predict the Reliability of Component-Based Software", In: *Multi-Criteria Decision Models in Software Reliability*, Taylor & Francis Group, DOI: [10.1201/9780367816414-11](https://doi.org/10.1201/9780367816414-11)
 13. Saurabh Sharma, **Harish K. Shakya**, Ashish Mishra (2022), "A Time-Variant Software Stability Model for Error Detection" In: *Multi-Criteria Decision Models in Software*

Reliability, Taylor & Francis Group, DOI: [10.1201/9780367816414-14](https://doi.org/10.1201/9780367816414-14)

14. Sikarwar, R., Singh, S.S., **Shakya, H.K.** (2023). A Review on Community Detection Using Deep Neural Networks with Enhanced Learning. In: Gupta, D., Khanna, A., Bhattacharyya, S., Hassanien, A.E., Anand, S., Jaiswal, A. (eds) International Conference on Innovative Computing and Communications. Lecture Notes in Networks and Systems, vol 473. Springer, Singapore. https://doi.org/10.1007/978-981-19-2821-5_15
15. Ranjana Sikarwar, **Harish Kumar Shakya**, Rahul Bharadwaaj (2022), "Crime Detection on Social Networks Using AI and ML Techniques", Source Title: Dark Web Pattern Recognition and Crime Analysis Using Machine Intelligence, DOI: [10.4018/978-1-6684-3942-5.ch011](https://doi.org/10.4018/978-1-6684-3942-5.ch011)
16. Sahu, A.K., Singh, A., **Shakya, H.K.** (2022). Filter Design for Radar Signal Analysis Using Field Programmable Gate Array. In: Singh, M.K., Gautam, R.K. (eds) Recent Trends in Design, Materials and Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-16-4083-4_40
17. Sikarwar, R., Singh, S.S., **Shakya, H.K.** (2022). Learning-Driven Nodes Profiling in 6G Wireless Networks: Vision, Challenges, Applications. In: Dutta Borah, M., Singh, P., Deka, G.C. (eds) AI and Blockchain Technology in 6G Wireless Network. Blockchain Technologies. Springer, Singapore. https://doi.org/10.1007/978-981-19-2868-0_8
18. Sharma, S., **Shakya, H.K.** , An Efficient Hybrid Recommendation Model with Deep Neural Networks, Machine Intelligence and Smart Systems. Algorithms for Intelligent Systems. Springer, Singapore (May 2022). https://doi.org/10.1007/978-981-16-9650-3_36
19. Saurabh Sharma, **Harish Kumar Shakya**, Ashish Mishra, "Medical Data Security Using Blockchain with Soft Computing Techniques: A Review", The Internet of Medical Things (IoMT): Healthcare Transformation, pg 269-288, Feb 2022. <https://doi.org/10.1002/9781119769200.ch14>
20. Saurabh Sharma, **Harish Kumar Shakya**, Ashish Mishra, "Medical Data Classification in Cloud Computing Using Soft Computing With Voting Classifier: A Review", The Internet of Medical Things (IoMT): Healthcare Transformation, pg 23-44, Feb 2022. <https://doi.org/10.1002/9781119769200.ch2>
21. S. Karnani and **H. K. Shakya**, "Leveraging SDN for Load Balancing on Campus Network (CN)," 2021 13th International Conference on Computational Intelligence and Communication Networks (CICN), 2021, pp. 167-171, <https://doi.org/10.1109/CICN51697.2021.9574640>
22. R. Sikarwar, **H. K. Shakya** and S. S. Singh, "A Review on Social Network Analysis Methods and Algorithms," 2021 13th International Conference on Computational Intelligence and Communication Networks (CICN), 2021, pp. 1-5, <https://doi.org/10.1109/CICN51697.2021.9574691>
23. Pinkal Jain, **Harish Kumar Shakya**, "A Review of Different Privacy Preserving Techniques in Data Mining", January 29, 2022. Available at SSRN: <https://ssrn.com/abstract=4021149> or <http://dx.doi.org/10.2139/ssrn.4021149>

24. Saurabh Sharma, **Harish Kumar Shakya**, Venkatadri Marriboyina, “A location based novel recommender framework of user interest through data categorization”, **Materials Today: Proceedings**, Volume 47, Part 19,2021, Pages 7155-7161, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.06.325>
25. Saurabh Sharma, **Harish Kumar Shakya**, Ashish Mishra, “Data Classification Framework for Medical Data through Machine Learning Techniques in Cloud Computing”, *Mathematical Modeling and Soft Computing in Epidemiologic Press*, November 2020, <https://doi.org/10.1201/9781003038399>
26. **Harish Kumar Shakya**, Kuldeep Singh, and Bhaskar Biswas. "An Efficient Genetic Algorithm for Fuzzy Community Detection in Social Network." In *Advanced Informatics for Computing Research*, pp. 63-72. Springer, Singapore, 2017. [SCOPUS]
27. **Harish Kumar Shakya**, Kuldeep Singh, and Bhaskar Biswas, “Identifying community structure in Social Network Using Node Similarity Based Permanence Concept”, *Journal of Advanced Research in Dynamical and Control Systems*, vol. 10, 06-special Issue pp. 1829-1837, 2018. [SCOPUS]
28. **Harish Kumar Shakya**, Nazeer Shaik, Kuldeep Singh, G R Sinha, Bhaskar Biswas,"Community Structure Identification in Social Networks Inspired By Parliamentary Political Competitions”, *Advances in Intelligent Systems and Computing*, Springer, Singapore, 2018. [SCOPUS] https://doi.org/10.1007/978-981-13-9364-8_32
29. **Harish kumar Shakya**, kuldeep singh, Bhaskar biswas, “Community Detection Using Differential Evolution Algorithm With Multiple Objective Function”, *International Journal of Urban Design for Ubiquitous Computing*. Vol.2, No.1 (2014), pp.7-14. DOI: <http://dx.doi.org/10.21742/ijuduc.2014.2.1.02> [JOURNAL]
30. **Harish kumar shakya**, kuldeep singh,Bhaskar biswas, ”Improviesed Genetic Algorithm For Fuzzy Overlapping Community Detection in Social Networks”,43rd IRES International Conference on Computer Science and Information Technology (**ICCSIT-2016**), July 10, 2016, Bangkok, ISBN: 978-93-86083-53-1.
31. **Harish Kumar Shakya**, Bhaskar Biswas,” Review of Community Detection Approaches in Social Networks using Bayesian Method and Graph Theory ” 2nd world congress on Information and communication technologies (**WICT-2012**), PP. 34-39, 30 October – 02 November, 2012,ISSN: 2150-7996, Trivandrum , **IITM Kerala**, India.
32. **Harish kumar shakya**, kuldeep singh, Bhaskar biswas,” Community Detection in Social network Using Extended SOM Algorithm” *International Journal of Advance Research in Science and Engineering*, ISSN: 2319-8354. [JOURNAL]
33. **Mr. Harish Kumar Shakya**, Aruna Tiwari, “Web Based Learning Tool for Relational database design ”, *International Joint Journal Conferences in Computer Electronics and Electrical* , CEE 2009, **Academy Publishers Finland**, Vol. 2 , pp. 106-108, 2009, ISSN: 1797-9617. [JOURNAL]
34. **Harish Kumar Shakya**, Bhaskar Biswas, “ Study of Metrics for Social Network Analysis”

National Conference on Artificial Intelligence and Agents Theory and Applications, December 9-11, 2011, Department of Computer Engineering, **IIT–BHU**, Varanasi ,India.

35. **Harish Kumar Shakya**, Bhaskar Biswas, “Software Cost Estimation Using Soft Computing Techniques” National Conference on Mathematical Modeling and Computer Simulation, March 23-25, 2012, Department of Applied Mathematics, **IIT–BHU**, Varanasi, India.
36. **Harish Kumar Shakya**, Bhaskar Biswas, “ Soft Computing Approach for Software Cost Estimation” National Conference on Frontiers of Research and Development in Computational Sciences, March 25-26, 2012, Department of Computer Science, M.G. Kashi Vidyapith , Varanasi ,India.
37. Ajay Kumar, Shashank Shekhar Singh,Kuldeep singh, **Harish Kumar Shakya** and Bhaskar Biswas, “An Implementation of Malware Detection System Using Hybrid C4. 5 Decision Tree Algorithm”, Second International Conference on Advanced Informatics for Computing Research (**ICAICR-2018**), Shimla, india, July 14-15 , 2018 (Springer) [**SCOPUS**] http://doi.org-443.webvpn.fjmu.edu.cn/10.1007/978-981-13-3143-5_48
38. Shashank Shekhar Singh,Kuldeep singh, Ajay Kumar, **Harish Kumar Shakya** and Bhaskar Biswas, “A Survey on Information Diffusion Models in Social Networks,” Second International Conference on Advanced Informatics for Computing Research (**ICAICR-2018**), Shimla, india, July 14-15 , 2018 (Springer) [**SCOPUS**]
39. A Dadu,Ajay Kumar, **Harish Kumar Shakya**, B Biswas," A Study of Link Prediction Using Deep Learning", Second International Conference on Advanced Informatics for Computing Research (**ICAICR-2018**), Shimla, india, July 14-15 , 2018 (Springer) [**SCOPUS**]
40. Bhaskar Biswas, Vijay Nayak, **Harish kumar shakya**,” Comparison of Algorithms for Social Networks using Ontology” International Journal of Computer Applications, Volume 85 – No 13,PP. 31-34, January 2014, ISSN: 0975 – 8887. [**JOURNAL**]
41. **Harish kumar shakya**, Anuranjan kumar,Vaibhav gupta, Gaurav kumar singh, Bhaskar biswas, “improvisation of differential evolution for community detection”, IEEE International Conference on Computational Intelligence and Computing Research, **ICCIC 2014**, Dec 18-20, 2014,PARK College of Engineering and Technology, Tamilnadu , India, ISBN: 978-1-4799-3975-6. [**IEEE Xplore**]
42. Kuldeep Singh, **Harish Kumar Shakya**, and Bhaskar Biswas, “Clustering of people in social network based on textual similarity.” Perspectives in Science, Elsevier, Vol. 8, September 2016, Pages 570-573, ISSN: 2213-0209. DOI: <https://doi.org/10.1016/j.pisc.2016.06.023>
43. Kuldeep Singh, **Harish Kumar Shakya**, and Bhaskar Biswas. “Happiness Index in Social Network." In Advanced Informatics for Computing Research, pp. 261-270. Springer, Singapore, 2017. [**SCOPUS**] DOI: https://doi.org/10.1007/978-981-10-5780-9_24
44. Kuldeep Singh, **Harish Kumar Shakya**, and Bhaskar Biswas “A Survey of Top-k High Utility Itemsets Mining.”Communications in Computer and Information Science, Springer, 2017. [**SCOPUS**]
45. Kuldeep singh, **Harish kumar shakya**, Bhaskar biswas,"Discovery of Multi-frequent

Patterns Using Directed Graph", international conferences of Emerging Research in Computing, Information, Communication and Application, **ERCICA 2015**, Volume 2,pp 153-162. [SPRINGER]

46. Kuldeep singh, **Harish kumar shakya**, Bhaskar Biswas,"An Efficient Approach to Discovering Frequent Patterns from Data Cube using Aggregation and Directed Graph"**ICCCT '15** Proceedings of the Sixth International Conference on Computer and Communication Technology 2015,Pages 31-35. [SCOPUS]

<https://doi.org/10.1145/2818567.2818573>

47. **Harish kumar shakya**,Shailendra tiwari, sunil semwal, "Scalable sequential pattern Mining Algorithm for Sequence of Transaction "4th International conference on intelligent System and Nanotechnology (**IISN-2010**) February 26-28,pp. 327-331.

48. Ravi verma, **Harish kumar shakya**," Face Detection via Color and Edge Information", International Conference on Advances in Communication and Control Systems 2013 (**CAC2S 2013**), DIT University Dehradun, Published by Atlantis Press, pp. 65-69.

49. **Harish Kumar Shakya**, Aruna Tiwari, "**Relational Database Design Tool**", LAP Lambert Academic Publishing, ISBN: 978-3659972157, 2016. [BOOK]

PERSONAL INFORMATION

Date of Birth : 07-July-1983
Gender : Male
Father's Name : Shri D.L Shakya
Permanent Address : 26 Durgapuri, Tansen Road,
Gwalior, Madhya Pradesh. Pin-474002
Languages known : Hindi, English
Marital status : Married
Hobbies : Listening music & Snooker
Area of interests : **Internet of Things, Database management system, Object oriented Programming, Digital logic Design, social network analysis, Evolutionary Algorithms, Soft-computing techniques, Data-Mining.**

DECLARATION:

I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Gwalior (MP)

(Dr. HARISH KUMAR SHAKYA)