CURRICULUM VITAE

Dr. Vijendra Singh

M.Tech (CSE), BIT Mesra, Ph.D (Engineering)

Faculty of Engineering & Technology

Mody University of Science and Technology

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1. RESEARCH INTERESTS

My current research interests are focused on Clustering of High Dimensional Databases, using stochastic techniques of search. In particular I'm working on:

- Data Mining and Knowledge Discovery
- Clustering Massive and High-Dimensional Real-World Databases
- Classification
- Feature Selection
- Bioinformatics
- Image processing

2. **RESEARCH & DEVELOPMENT ACHIEVEMENTS**

- ➤ **Selected Conference/Workshop Committee member, IEEE Computer Society India, 2014**

- ➤ Programme Committee Member of 3rd Science One International Conference on Information Technology, Dubai, UAE, January 21-23, 2015.

- ➤ Programme Committee Member of 2014 International Conference on Data Mining (DMIN14). Las Vagas, USA, July 21-24, 2014.

- ➤ Programme Committee Member of 2nd Science One International Conference on Information Technology Dubai, UAE, January 21-23, 2014.

- ➤ Programme Committee member and Reviewer of 2013 International Conference on Data Mining (DMIN11).Las Vagas, USA, July 22-25, 2013.

- ➤ Reviewer of 3rd IEEE International Advance Computing Conference (IACC-2013) Organized by IEEE Computer Society, India Council & IEEE Student Branch, AKGEC, Ghaziabad-201009, India.

- ➤ 1st ScienceOne International Conference on Information Technology, Dubai, UAE, February 6-7, 2013.

- ➤ Programme Committee member and Reviewer of 2012 International Conference on Data Mining (DMIN11).Las Vagas, USA, July 16-19, 2012.

- ➤ Programme Committee member and Reviewer of 2011 International Conference on Data Mining (DMIN11).Las Vagas, USA, July 18-21, 2011.

- ➤ Reviewer and Editorial Board member of International Journal of Computer and Electrical Engineering, Singapore.

- ➤ Reviewer of 2011 IEEE 3rd International Conference on Machine Learning and Computing Singapore, February 26-28, 2011.

- ➤ Reviewer of IEEE International Conference on Software and Computing Technology (ICSCT2011) and ICSCT series.

- ➤ Selected for Who's Who in Science and Engineering, 11th Edition (2011-2012), Marquis Who's who, New providence, NJ, USA 07974.

- ➤ Editorial Board member, Asian Journal of Scientific Research, Science Alert, USA.
- ➤ Editorial Board member, Journal of Artificial Intelligence, Science Alert, USA.
- ➤ Editorial Board member, Research Journal of Information Technology, Science Alert, USA.
- ➤ Editorial Board member, Trends in Bioinformatics, Science Alert, USA.
- ➤ Awarded IBM Edu Leader certificate

3. PUBLICATION IN REFEREED JOURNALS

1. Vijendra Singh and Laxman Sahoo. Multi Objective Line Symmetry based Evolutionary Clustering Approach, Studies in Computational Intelligence, Volume 543, pp 49-58, 2014. Scopus, INSPEC, Ei Compendex/ Impact factor 0.32

2. Vijendra Singh and Laxman Sahoo. Effective Evolution of Clusters: A Genetic Clustering Approach, Research Journal of Information Technology, Academic Journals Inc, Accepted- 2014. Scopus, INSPEC, Ei Compendex/ Impact factor 1.7

3. Singh, V., and Pathak, S. Feature Selection Using Classifier in High Dimensional Data. arXiv preprint arXiv:1401.0898, 2014. DBLP

4. Vijendra Singh and Laxman Sahoo. Subspace Clustering of High Dimensional Data: An Evolutionary Approach. Applied Computational Intelligence and Soft Computing, Hindawi, Vol 2013, pages 12, 2013. INSPEC, ACM, Ei Compendex

4. Vijendra Singh and Priyanka. Fast Density Based Clustering Algorithm, International Journal of Machine Learning and Computing, Vol. 3, No. 1, pages 10-12, 2013. INSPEC, Ei Compendex

5. Vijendra Singh and Nisha Vasudava. Offline Character Recognition System Using Artificial Neural Network, International Journal of Machine Learning and Computing,Vol. 2, No. 4, pages 449-452, 2012. INSPEC, Ei Compendex/ Citations- 2

6. Vijendra Singh and Laxman Sahoo. A Fast Evolutionary Algorithm for Automatic Evolution of Clusters, Information Technology Journal, Vol. 11(6), pages 1409-1417, 2012. Scopus, INSPEC, Ei Compendex/ Impact factor 1.3/Citations- 1

7. Vijendra Singh. Efficient Clustering for High Dimensional Data: Subspace Based Clustering and Density Based Clustering, Information Technology Journal, Vol. 10(6), pages 1092-1105, 2011. Scopus, Ei Compendex /Impact factor 1.3/Citations -10

8. Vijendra Singh, Laxman Sahoo and A. Kelkar. Mining Clusters in Data Sets of Data Mining: An Effective   Algorithm, International Journal of Computer Theory and Engineering, Volume 3, No 1, pages 171-177, 2011. INSPEC, Ei Compendex/Citations -03

9. Vijendra Singh, Laxman Sahoo and A. Kelkar. Mining Subspace Clusters in High Dimensional Data, International Journal of Recent Trends in Engineering & Technology,Volume 3, No 1, USA, pages 118-122, 2010.

INSPEC, Ei Compendex /Citations -03

10. Vijendra Singh and Laxman Sahoo. A New Approach to Clustering Data with Automatic Evolution of Clusters, Soft Computing, Springer, Under revision
SCI Indexed/ Impact factor 1.2

11. Vijendra Singh and Laxman Sahoo. Evolving Clusters Based on, Symmetry Based Approach, Journal of Multiple- Valued Logic and Soft Computing, OCP USA, Under Review. SCI Indexed/ Impact factor 0.6

12. Vijendra Singh and Laxman Sahoo. A Survey on Clustering Problem: Traditional Algorithms, High Dimensional Algorithms and Cluster Validation, Knowledge and Information Systems, Springer, Under Review
SCI Indexed/ Impact factor 2.2

13. Vijendra Singh and Laxman Sahoo. Genetic Clustering Algorithm for Effective Evolution of Clusters, Journal of Computer and Systems Sciences International, Springer Under Review. SCI Indexed/ Impact factor/ 0.2.

5. PUBLICATION IN INTERNATIONAL/ NATIONAL CONFERENCES

14. Vijendra Singh. Genetic Algorithm for Traveling Salesman Problem: Using Modified Partially-Mapped Crossover Operator, IEEE International Conference on Multimedia, Signal Processing and Communication, Aligarh Muslim University, Aligarh, March 14-16, 2009. Scopus, INSPEC, Ei Compendex/ Citations -10

15. Vijendra Singh and Laxman Sahoo. An Effective Clustering Algorithm for data mining IEEE International Conference on Data Storage and Data Engineering DSDE 2010, Bangalore, February 9-10, 2010.
Scopus, INSPEC, Ei Compendex/ Citations -8

16. Vijendra Singh and H J Parashar. A New Method for Classification of Datasets for Data Mining, IEEE 3rd International Conference on Machine Learning and Computing, Singapore, February 26- 28, 2011.

17. Vijendra Singh and Priyanka. Density Based Algorithm With Automatic Parameters Generation, IEEE 3rd International Conference on Machine Learning and Computing, Singapore, 26- 28, February 2011.

18. Vijendra Singh and Nisha Vasudava. Recognition of Text Image Using Multilayer Perceptron, IEEE 3rd International Conference on Machine Learning and Computing, Singapore, 26- 28, February 2011.

19. Vijendra Singh and H J Parashar. A Method for Classification Based on Decision Tree Induction, International conference CONFLUENCE 2011, Amity University, Noida, India, January 27-28, 2011.

20. Vijendra Singh and Nisha Vasudava. A Neural Network Based Approach for Character Recognition, International conference CONFLUENCE 2011, Amity University, Noida, India, January 27-28, 2011.

21. Vijendra Singh. Mining subspaces from high dimensional data, National Conference on ICT: Theory Application and Practices, SPSU, Udaipur, India, 5-6 March 2010.

22. Vijendra Singh and Priyanka. Clustering Approach for Data Mining, National conference on Next Generation Computing & Information Systems, Jammu, India, 2010.

23. Vijendra Singh and Priyanka. A Density Based Algorithm for Clustering, National conference on Next Generation Computing & Information Systems, Jammu, India 2010.

24. Vijendra Singh. Application of artificial neural networks for the wind power prediction: A case study for Harshnath (Sikar), National Conference on Energy 2008, MITS, Lakasmangarh, 2008.

6. BOOK PUBLISHED

25. Vijendra Singh and Shivani. Detecting Outliers A Univariate Outlier and K-Means Approach, LAMBERT Academic Publication, pages 60, 2013. ISBN-10: 3659391840

7. RESEARCH WORK DONE IN EMERGING/INNOVATIVE AREAS:

Sr. No.	Name of the faculty/researcher	Emerging/Innovative Areas	Research work done by the Faculty/Research Scholar (Topic of the Research and Achievements- publication with details)
1.	Prof(Dr.) Laxman Sahoo/Vijendra	Pattern Recognitions and Evolutionary	Evolving Clusters For Mining Multi-Dimensional Data

	Singh	Computing	
2.	Vijendra Singh/ Ms. H J Parashar	Pattern Recognitions M. Tech dissertation	Evolving Cluster in Large Data Set: A Neural Network Approach,
3.	Vijendra Singh/Ms. H J Parashar	Pattern Recognitions M. Tech Project	Classification Analysis of Data Set for Data Mining Application
4.	Vijendra Singh/Ms. Nisha Vasudava	Pattern Recognitions M. Tech dissertation	Detection and Recognition of Face Using Neural Network
5.	Vijendra Singh/Ms. Nisha Vasudava	Character Recognitions M. Tech Project	Character Recognition
6.	Vijendra Singh/Ms. Shivani Pathak	Outlier Detection M. Tech dissertation	Detect Outlier by Integrating Univariate Outlier Detection and K-Means Algorithm
7.	Vijendra Singh/Ms. Shivani Pathak	Feature Selection M. Tech Project	Feature Selection in High Dimensional Data Set
8.	Vijendra Singh/Ms. Priyanka	Pattern Recognitions M. Tech dissertation	Density based clustering of High Dimensional Data

8. M. TECH. DISSERTATION SUPERVISED/SUPERVISING

1. Ms. Shivani Pathak, An Approach to Detect Outlier by Integrating Univariate Outlier Detection and K-Means Algorithm, 2012.
2. Ms. Nisha Vasudava, Detection and Recognition of Face Using Neural Network, 2011.
3. Ms. H J Parashar, Evolving Cluster in Large Data Set: A Neural Network Approach, 2011.
4. Ms. Priyanka Thrikha, Density Based Clustering of High Dimensional Data, 2011.

9. M. TECH. PROJECT SUPERVISION

1. Ms. Shivani Pathak, Feature Selection in High Dimensional Data Set, 2011.
2. Ms. Nisha Vasudava, Character Recognition, 2010.
3. Ms. Hem Jyotsana Parashar, Classification Analysis of Data Set for Data Mining Application, 2010.
4. Ms. Priyanka Thrikha, Clustering in Large Data Mining Application, 2010.
5. Ms. Neha Singh, Subspace Clustering of High Dimensional Data, 2010.

10. SHORT TERM COURSES/WORKSHOPS/CONFERENCES ATTENDED

Sr. No.	Name of the Training, Course/ Workshop	Name of the Institutions where attended	Dates	State/ National/ International
1.	Short term course on "Intelligent Informatics"	IIT, Kanpur	July 14-19, 2013	International
2.	IEEE Workshop On Computational Intelligence: Theories	IIT, Kanpur	July 13, 2013	International
3.	Faculty Development Program on "Multi- Multivariate Data Analysis"	IIT, Kharagpur	July 4-9, 2011	International
4.	IEEE International Conference on Data Storage and Data Engineering (DSDE 2010)	Bangalore	February 9-10, 2010	International
5.	National Conference on ICT: Theory Application and Practices	SPSU, Udaipur	March 5 -6, 2010	National
6.	Faculty Development Program on "Data Mining and Warehouse"	Accenture India Ltd, Gurgaon	Februray, 8-10 2009	National
7.	IEEE International Conference on Multimedia, Signal Processing And Communication Technologies	Aligarh Muslim University, Aligarh	March 14 - 16, 2009	International
8.	National Conference on Energy	MITS, Lakshmangarh	2009	National
9.	National Conference on Energy	MITS, Lakshmangarh	2008	National
10.	Advanced Communication and Network	Falcon Electro-Teck Pvt. Ltd. Mumbai at Hotel maharani Place, Jaipur	2007	State

11. PAPER REVIEWED AS REVIWER

- Video forgery detection based on non-sub sampled contourlet transform and gradient information
- Research on Energy Efficiency of Wireless Sensor Networks Based on Network Coding
- Mining Data Generated by Sensor Networks: A Survey
- Granular Computing-based Granular Structure Model and Its Application in Knowledge Retrieval
- The Research and Application of Online Product Display Technology based on Augmented Reality
- Synchronizability optimization for the edge iteration based deterministic small-world network with the modified simulated annealing algorithm
- Estimate Load-dependent Service Demand for Modern CPU
- A moving object extraction method for video based on color kernel histogram
- Modeling and Adaptive Neuro-Fuzzy Interference system based autonomous flight control for Hexrotor MAV
- KM-NEU: An Efficient Hybrid Approach for Intrusion Detection System
- Incidence Matrix Based Matching Method for Software Component Retrieval
- Terrorist Activity Detection on Web
- MAKER: A New Algorithm in Finding Frequent Itemsets, DMIN11
- An Efficient Technique for Feature Selection and Initialization of Centroids for High Dimensional Data Clustering, DMIN13
- A Two Stage Algorithm for Data Clustering, DMIN11
- Different Aspects of Data Stream Clustering, DMIN11
- An Approach to Analyzing Multi-Dimensional Data, DMIN12
- Consensus clustering from experts' partitions for patients' nevi: Model the Ugly Duckling, DMIN12
- Integrating Decision Tree and K-Means Clustering with Different Initial Centroid Selection Methods in the Diagnosis of Heart Disease Patients, DMIN12
- Feature Selection for Clustering by Exploring Nearest and Farthest Neighbors, DMIN12
- Requirements of Clustering in Data Mining, DMIN13
- Labour Market Forecasting by Using Data Mining, DMIN13
- Mining for Hydrologic Features in LiDAR Data, DMIN13
- Evaluation of Monte Carlo Subspace Clustering with Open Subspace, DMIN13
- A Modified Approach to Text Steganography using Hyper Text Markup Language, IACC2013
- Statistical Review based on Data Clustering Algorithms, IACC2013

12. PROFESSIONAL EXPERIENCE

- Working as Assistant Professor (Selection Grade), Faculty of Engineering and Technology, Mody Institute of Technology & Science (Deemed University), Lakshmangarh, Sikar (Rajasthan) since July 1, 2007.
- Worked as Lecturer (Computer Science & Engineering) with Mody Institute of Technology & Science (Deemed University), Lakshmangarh, Sikar (Rajasthan) from November 2005 to June 2007.
- Worked as Lecturer (Computer Science & Engineering) with Global Institute of Technology, Sitapura, Jaipur is affiliated with Rajasthan Technical University, Kota from Jan 2005 to Oct 2005.
- Worked as Lecturer (Computer Science & Engineering) with Arya College of Engineering & IT, Kukas, Jaipur, Rajasthan is affiliated with Rajasthan Technical Kota, from July 2004 to Dec 2004.
- Worked as Lecturer (Computer Science & Engineering) with Shree Balaji College of Engineering & IT is affiliated with Rajasthan Technical University, Kota from August 2003 to July 2004.
- Worked as System Executive at Asian CERC Information Technology Ltd, Bangalore from Jan 2003 to July 2003.
- Worked as Executive at IIHT, Jaipur from Jan 2002 to December 2002.

13. PROJECT DONE AS A SYSTEM EXECUTIVE IN ASIAN CERC Ltd
1. Project Name: NASDAQ Stock Exchange client Application
- Company name: Asian CERC Information Technology Ltd, Bangalore.
- Client name: First Global Financial Corporation, New York, USA.
- Purpose of Project: For Trading from NASDAQ Stock Exchange, USA and provide NASDAQ live quotes and trade Reports.
- Project detail:

  This project facilitates Trading interface for NASDAQ Stock Exchange, USA. Working as an active member of a team, responsible for developing a commercial product of the company targeted on providing the stock and marketing information, report to the client, also providing facility On-Line Trading. As a member of development team, responsibilities to providing interface between Exchange Manager and NASDAQ Stock Exchange. The interaction between Exchange Manager and NASDAQ Stock Exchange did through TCP/IP protocol, using Winsock Control. The basic functionality of Exchange Manager is to receive a packet from NASDAQ Stock Exchange break it and put the data in MSMQ, which in turn updates the database.

2. **Project Name: Surveillance Interface for Stock Brokers**.

- Company name: Asian CERC Information Technology Ltd, Bangalore.
- Client name: First Global Financial Corporation, New York, and USA.
- Purpose of Project: Whenever Stock Exchange client trading From NASDAQ Stock Exchange, NSE, and BSE gives alerts and violations about client's exposures.
- Project detail:
  This project facilitates to surveillance the trading securities at different levels such as Trade limit for Brokers, Sub-Brokers, and clients, margin of profit or loss for any quotes. Give alarm notification whenever beyond the limits, confirmation of Trading, Generation of reports for different purpose like hierarchical clients and those limits, total trading in current day for each client's level, total profit /loss at each level etc.
  Project interface provide different level login like administrator, Broker or Sub-broker, and Client for security purpose. Administrator can create broker, Brokers can creates new clients and set there all type limits so that they can control the clients trading.

3. **Project Name**: **ORE-RMS** (**The Order Routing –Risk Management System**)

- Company name: Asian CERC Information Technology Ltd, Bangalore.
  Client name: Sunidhi Consultant Ltd.Chennai
  This is the heart of the Trading of system and is responsible for managing all the trading accounts registered with the system. The application takes care of pre-trade and post trade risk management. All risk management and order routing business rules are user definable. The application is also capable of generating user definable alerts in case of warning conditions being established. The application interfaces seamlessly with its set of API's with the other components constituting the Trade Anywhere system.

14. AREA OF EXPOSURE IN TEACHING:

After joining Mody Institute of Technology & Science, Lakshmangarh, I have taught several specialized courses at M.Tech (CSE) program level and various courses at B.Tech level.

S.No	Course Taught
1	Advanced Computer Networks- M.Tech (CSE)
2	Soft Computing- M.Tech (CSE)
3	Advanced Computer Architecture- M.Tech (CSE)
4	Parallel Computing- M.Tech (CSE)
5	Software Engineering- B.Tech
6	Operating Systems- B.Tech
7	Computer Communication and Network- B.Tech
8	Parallel and Distributed Computing- B.Tech
9	Computer Networks- B.Tech
10	DBMS- B.Tech
11	Data Structure and Algorithm- B.Tech
12	Design and Analysis of Algorithm- B.Tech
13	Network Programming- B.Tech
14	System Programming- B.Tech
15	Data Mining and Warehousing- B.Tech

15. TEACHING STATEMENT

I view teaching as a significant and rewarding part of my career as a researcher. I have extensive experience in teaching as the instructor for a number of courses and as a teaching assistant for several others. Challenges in instructing graduate and postgraduate students for me is finding the ways to bring the students down into the nuts and bolts of the course and develop a system level design approach without squandering their initial enthusiasm from the higher-level discussion. I found that allowing breadth in their final thesis/project report let the students explore any aspect of the topic of their interest while the tests and programming assignments provided a more hands-on working knowledge of computer algorithms in real life implementation.

I look forward to use my experience at Faculty of Engineering and Technology, Mody Institute of Technology and Science, Lakshmangarh and little bit at BIT Mesra Ranchi during my M. Tech Study. I am well prepared to teach some segments of the existing curriculum, from introductory courses to courses in, Advanced Computer Networks, Network Programming, Computer Networks, Data Mining and Warehousing. At the graduate/postgraduate level I have developed advanced courses in Data Mining and

Warehousing, Computer Networks, DBMS. I am also teaching computer algorithms and advanced computer architecture. Although these courses are outside of my research area, I believe problem solving within the context of programming is vitally important to computer science undergraduates /postgraduates /researchers.

I had have the good fortune to work and study with some exceptional Professors at BIT Mesra, Ranchi and Mody Institute of Technology and Science, Lakshmangarh during M. Tech programme/ my research, and it is from them that I have adopted much of my teaching style. I aim to make frequent use of examples and motivate ideas by placing them in context of both their applications and abstract generalizations. I favor a tutorial style of teaching that mixes lecturing with problem sessions in which students apply the ideas they are learning. This changes lectures from a passive experience to an interactive one and helps the teacher correct misapprehensions early on before the students tackle homework assignments on their own. A challenge in this style of teaching is finding appropriate problems in class sessions. For drill-like exercises where students learn to apply new techniques, I try to devise progressions of successively harder examples. This builds confidence and ensures that students of all levels are appropriately challenged.

I try to be sensitive to the fact that students come to a course with different backgrounds and skill levels. The challenge is to coach weaker students while not losing the attention of quicker students. I believe teachers should be a source of encouragement in students' lives, and especially so to underrepresented students. Finding a way to do this without making students feel singled out is a challenge. Showing sensitivity and taking opportunities to mentor students are unobtrusive ways to give under-represented students extra support.

16. ACADEMIC CURRICULUM DEVELOPMENT

I have been actively engaged in course curriculum development of B. Tech Level and M. Tech level in Computing Science & Engineering of Mody Institute of Technology and Science, Lakshmangarh, Rajasthan, India. I have setup DBMS Lab for this institute. I have also established labs for the department. A sound theoretical and practical work prepares the students in wider field of Computer Science and Engineering to take up challenging jobs in the area of:

- Systems Software Development
- Application Software Development
- Research & Development
- Networking

I have also applied my experiences in course curriculum development for the B. Tech, and M. Tech programme in Computer Science and Engineering at Mody Institute of Technology

and Science, Lakshmangarh. State of the art facilities both hardware and software, are available in the department adequate to carry out research work in the following areas:

- Clustering Massive and High-Dimensional Real-World Databases
- Classification
- Feature Selection
- Bioinformatics
- Image Processing
- Pattern Recognitions

17. ACADEMIC COMMITTEE MEMBERSHIPS

- Coordinator, Career Development Center, Mody University of Science & Technology, Lakshmangarh
- Committee member for Rankings University for GHRDC, FET, Mody University
- Committee member for Rankings University for Careers360, FET, Mody University
- Member of Evaluation Committee, FET, MITS University
- Member University Talent Search Examination, Mody University
- Grade moderator of Examination
- Member Counseling Committee, MITS University
- Member University FDC Committee, MITS University
- Coordinator departmental expert lecture,FET, MITS University
- Member Coordinator of MEET Entrance Test Committee, MITS University.
- Member of Scrutiny Committee (Admission)
- Member coordinator, NAAC Committee, FET, MITS University
- Member coordinator, NBA Committee, CSE, FET, MITS University
- Member, Academic Planning Committee

18. SKILL PROFILE

According to both academic and industrial collaborators (reference letters are available upon request), my personality is classified as team worker, self-motivated, reliable, hardworking, honest, sociable, and highly cooperative. I like to describe my working style as open, pragmatic, diplomatic and objective. Environments that I thrive in give a lot of freedom to each individual while keeping the team tight. I have presented my research at international conferences and worked on projects interfacing with specialists. The experience I have gained has taught me to be adjustable and to communicate efficiently with people of different backgrounds and

origins. The four-year exposure to a demanding global research environment, the participation in prestigious international conferences presenting my novel papers, and finally, my superb written and spoken English, support communication and presentation skills.

19. TECHNICAL SKILLS

Professional and academic/research experience has given me the ability to use a range of implementation tools and to assimilate new technologies and ideas quickly. One of my key technical skills is devising intelligent data mining techniques for clustering massive and high-dimensional databases. According to world-established academic/industrial referees my technical skills are summarized as:

I'm well equipped to both teach and to undertake research. I'm a very capable researcher with the ability to synthesis research areas and to generate novel ideas coupled to the tenacity to solve hard real-world problems. I have developed superb technical writing skills and I'm developing an impressive publication record having authored several high quality journal and international conference papers. I have excellent technical skills with a broad Computer Science background, coupled with world-leading expertise in data mining and evolutionary computing research. I'm very capable software/multimedia engineering, with expertise in several languages. These skills are an excellent basis for teaching a range of Computer Science subjects at different undergraduate and postgraduate levels. I have an extensive teaching experience spanning for more than eleven years.

20. DEVELOPMENT TOOLS AND TECHNOLOGIES

- Operating systems: Windows, Linux, UNIX, Dos.
- Programming languages: knowledge of Java (Sun Microsystems), Object Oriented Programming, Networking, Distributed and Parallel Computing, Sockets, C++, C, Visual Basic, HTML, UML.
- Database tools: Oracle, Access, and SQL.
- Other packages: Microsoft Word, PowerPoint, Vision, FrontPage, Access, and Excel.

21. EDUCATIONAL QUALICATIONS

- PhD in Engineering entitled "Evolving Clusters for Mining Multi-Dimensional Data", Department of Computer Science and Engineering, Faculty of Engineering & Technology, MITS Deemed University, Lakshmangarh, Sikar, Rajasthan (2013). (Awarded of the Ph. D degree in accordance with the provisions of UGC Regulations for award of Ph. D.-2009).
- Master of Technology (M.Tech) in Computer Science and Engineering from Birla

Institute of Technology, Mesra, Ranchi (2003).
Divission: 1st

- Master of Science (M.Sc.) from reputed University of Rajasthan, Jaipur, Rajasthan (1995).
Divission: 1st
- B.Sc (Physics, Chemistry, Maths) from reputed University of Rajasthan, Jaipur, Rajasthan (1993).
Divission: 1st
- II Sc (Physics, Chemistry, Maths) from RBSE, Ajmer, Rajasthan (1989).
Divission: 1st
- S Sc (Physics, Chemistry, Math's) from RBSE, Ajmer, Rajasthan (1988).
Divission: 1st
- One Year Certification course of French language, MITS University, Lakshmangarh, Sikar, Rajasthan (2008-09).
Divission: 1st

22. PERSONAL INFORMATION

Date of Birth:	01 Jan 1972.
Language Known:	English, Hindi, French
Father's Name:	Sh. Ram Kumar
Marital Status:	Married
Nationality:	Indian

REFERENCES:

1. **Prof. P C Saxena,** School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi, India (Ph.D Thesis Examiner)
   Email: premchand_saxena@yahoo.com
2. **Prof. Laxman Sahoo**, School of Computer Engineering, KIIT University, Bhubaneswar, Odisha, India (Ph.D Research Guide)

Email: laxmansahoo@yahoo.com

3. **Prof. Prasanna Sahoo**, University of Louisville, Louisville, KY 40292 USA

   Email: sahoo@louisville.edu (Ph.D Thesis Examiner)