

## *Curriculum Vitae*

**Dr. ASHOK KUMAR MEHTA**

Associate Professor, Dept. of Computer Applications  
National Institute of Technology,  
Jamshedpur-831014, Jharkhand, India  
Office: 2374121  
*e-mail: akmehta.ca@nitjsr.ac.in*



**Date of Birth:** December 26, 1958

**Marital Status:** Married

**Nationality:** Indian

**Residence:** C-12, NIT Campus, NIT Jamshedpur-831014

### **Doctoral Programme**

Ph. D., 2015, **Jadavpur university, Kolkata, India. Thesis Topic:** "Reliability Evaluation of an Interconnected Power System in Deregulated Environment".

### **Postgraduate Programme**

M. Tech.: *Power Systems*, (CGPA 8.83), 1988, **R. I. T., Jamshedpur**, Ranchi University.

### **Undergraduate Programme**

B. Sc. Engineering: *Electrical Engineering*, (First Class with Distinction, 72.53%), 1985, **R. I. T., Jamshedpur**, Ranchi University.

### **Current Research**

Application of Soft Computing.

### **Employment**

Job profile includes both undergraduate and postgraduate teaching and research at the National Institute of Technology Jamshedpur ([www.nitjsr.ac.in](http://www.nitjsr.ac.in))

- (a) Feb. 1997- Continuing, Associate Professor, National Institute of Technology Jamshedpur, India
- (b) June 1995 - January 1997, Senior Lecturer, Electrical Engg. Department, R. I. T. Jamshedpur, India.
- (c) August 1988 - May 1995, Lecturer, Electrical Engg. Department, R. I. T. Jamshedpur, India.

### **Subjects Taught**

- (a) U.G. Level: Introduction to Computer Programming & Internet Technology, Programming & Data Structure
- (b) P.G. Level: Computer Organization & Architecture, System Software & C Programming, Business Data Processing, Microprocessors & their Interfacing, Parallel & Distributed Processing, System Simulation & Modeling, Soft Computing, Pattern Recognition

### **Research**

Ph. D. Theses Supervised: 02 under progress

M. Tech. Theses Supervised: 09

MCA Theses Supervised: More than 100

### **Awards and Recognitions**

Merit Scholarship in B. Sc. Engineering

GATE Fellowship from 1985-1987.

### **Membership of Professional Societies:**

1. Life member of ISTE, LM14315
2. Fellow, The Institution of Engineers (India), F - 111245 - 3
3. Member, IEEE, 90683685

### **Administrative Responsibilities held:**

#### **a) Department Level:**

- Prof. In-Charge, Department Time-Table
- Departmental In-Charge of Student Project & Training

- Chairman, Departmental Purchase Committee
- Head of the Department, Dept. of Computer Applications (More than 5 years)
- Chairman, Departmental Academic Committee
- Principal Investigator of the MHRD Project "Modernization of MCA Computer Lab."

**b) Institute Level:**

- Member, Training & Placement (1999-2003)
- Prof. In-Charge, Athletics (1999-2003)
- Warden (About 6 Years)
- Prof. In-Charge, Exam. (UG) 03.10.2001 to 05.12.2003
- Dy. Centre Superintendent J. E. E. screening test of I. I. T., 2002
- Member, MCA Admission Committee 2002-2007
- Convener, Enquiry Committee for suspension of Sri S. C. Deo, Lecturer
- Member, Purchase Committee, Computer Centre
- Member, Purchase Committee, Establishment Section
- Member, Digital Campus Committee
- Prof. In-Charge, Community Welfare
- Member, Admission Committee (PG & R) for 2016-17 & 2017-18
- Member, Unnat Bharat Abhiyan
- Zonal Co-ordinator, Rashtriya Avishkar Abhiyan

**Areas of Interest:**

Reliability Evaluation, Pattern Recognition, Soft Computing, Machine Learning

**M.Tech. Theses Supervised: 9**

1. Noel Rittick Bar, "Network intrusion detection systems using decision trees and random forest", 2020.
2. Anku Kumari, "A hybrid intrusion detection system based on decision trees and support vector machine", 2020.
3. Vivek Vishal, "Study and design of intelligent network vulnerability detection system", 2019.
4. Vartika Dwivedi, "Enhancements to Intel security libraries for data center covering latest cryptographic algorithms and additional data integrity verification features", 2019.

5. Parminder Singh, "Analysis and design of classification system for detection of malicious IP addresses", 2018.
6. Yanamadala Ragini, "Location privacy preservation in database-driven wireless cognitive networks using cache memory", 2018.
7. Abhishikt V. V., "Binary Fuzzing Using Concolic Execution ", 2017.
8. Mona, "Comparision of Feature Selection Algorithm for the Classification of Malicious and Benign Java Script", (Co-Supervisor, Dr. S. S. Ghosh), 2017.
9. Avinash Dubey, " A Novel Approach for HDFS Data Security in Hadoop", (Co-Supervisor, Dr. C. Azad), 2017.

**MCA Theses Supervised (Last 6 years only): 50**

1. Megha Sinha, "Text classifier", (Co-Supervisor, Mr. Shailesh Tamboli), 2020.
2. Garima Sisodiya, "Employability asesment system", (Co-Supervisor, Mr. Mailanie Jauhar), 2020.
3. Sonam Gupta, "Project template manager", (Co-Supervisor, Mr. Krishna Kishore K), 2020.
4. Sharvari Wagle, "COVID-19 Symptom Risk Analyzer", (Co-Supervisor, Mrs. Neha Agrawal), 2020.
5. Arti Rajput, "Trackit Mobile Application", 2020.
6. Mohammad Zaid Khan, "Adding swipe features in keyboard", (Co-Supervisor, Mr. Ashfaq Ahmed), 2020.
7. Ajay Kumar Mandliya, "Institute information system", (Co-Supervisor, Mr. Rajendra Yadav), 2020.
8. Shivani Vyas, "Patient demographics historical order", (Co-Supervisor, Mrs. Ranjini), 2020.
9. Nitish Chander Sati, "Jugnoo taxi", (Co-Supervisor, Mr. Abhishek Kaushik), 2020.
10. Shambhavi, "Automation of approval of financial reports", (Co-Supervisor, Mr. Yogesh Khemka), 2020.
11. Shikha Dwivedi, "Online national tourism administration system", (Co-Supervisor, Mr. Pavan), 2019.
12. Manisha Biruli, "E-shopping cart", (Co-Supervisor, Mr. S. Subramanyam), 2019.
13. Aman Porwal, "Marker creation automation", (Co-Supervisor, Mr. J. Thakkar), 2019.
14. Akash Deep Shukla, "People finder", (Co-Supervisor, Mrs. S. Dolly), 2019.
15. Ayush Partani, "ATM incident management system", (Co-Supervisor, Mr. S. Gawatiya), 2019.

16. Tarun Sharma, "Whatsapp banking (chatbot)", (Co-Supervisor, Mr. S. K. Irulappan), 2019.
17. Pancham Lal Rajak, "Online blood bank management system", (Co-Supervisor, Mr. R. Sharma), 2019.
18. Gautam Barfa, "An android application for theater booking", (Co-Supervisor, Mr. R. Deepak), 2019.
19. Anurag Rastogi, "Knowledge management system", (Co-Supervisor, Mr. R. Sahu), 2019.
20. Kanika Parnami, "Merchant locator", (Co-Supervisor, Mrs. B. Madan), 2019.
21. Chandrima Jain, "Hiring occupation authority", (Co-Supervisor, Mr. N. V. Bhaskar), 2018.
22. Md. Saddam Hussain, "Cryptography for security", (Co-Supervisor, Mr. R. R. Kumar), 2018.
23. Ruchi Kaur, "E-Wallet canteen pay", (Co-Supervisor, Mr. M. Kumar. S), 2018.
24. Surbhi Bharti, "Web information security", (Co-Supervisor, Mr. R. R. Kumar), 2018.
25. Harsh Deep Negi, "Online project modules verification system", (Co-Supervisor, Mr. N. V. Bhaskar), 2018.
26. Shweta Bharti, "Recruitment management system", (Co-Supervisor, Mr. D. Nagarjuna), 2018.
27. Rima Divyanshi, "Prodigious India", (Co-Supervisor, Mr. D. Mahto), 2018.
28. Ishwar Kumar Singh, "Web Information Protection using SSL Algorithm", (Co-Supervisor, Mr. P. Ramesh ), 2017.
29. Anil Kumar, "Wealth Management, Intellect FABX(UNB)", (Co-Supervisor, Mr. Srinivasa.P. Rao), 2017.
30. Rahul Kumar, "3-D Modeling and Animation using Autodesk Maya", (Co-Supervisor, Mr. Arun Veer Singh), 2017.
31. Vivek Ranjan Gupta, "Asset Liabilities and Management", (Co-Supervisor, Mrs. Namrata Shah), 2017.
32. Sabyasachee Dash, "Distribution Cloud Application using MongoDB", (Co-Supervisor, Mr. Saurabh Agarwal), 2017.
33. Kumar Ratnam, "Pradhan Mantri Adarsh Gram Yojna", (Co-Supervisor, Mr. Sanjeev Gahlaut ), 2017.
34. Aarti Singh, "Kanban Board", (Co-Supervisor, Mr. Abhishek Tiwari), 2016.
35. Abhimanyu Kumar, "E – Movie Tickets", (Co-Supervisor, Mr. T. Rajesh), 2016.
36. Abhishek Bharti, "Online Airline Reservation System", (Co-Supervisor, Mr. T. Rajesh), 2016.
37. Abhishek Gaurav, "Automated Handson QP Bank", (Co-Supervisor, Mr. Sivaprasath CM), 2016.
38. Aditya Tyagi, "Online Tutorial System", (Co-Supervisor, Mr. P Kiran), 2016.
39. Ajeet Kumar, "Android Attack Application", (Co-Supervisor, Mr. Venkata Reddy), 2016.
40. Akalabya Singh, "Application Repackaging", (Co-Supervisor, Mr. P. B. Kotur), 2016.

41. Manish Kumar, "Online Recruitment System", (Co-Supervisor, Mr. Dindayal Mahto), 2015.
42. Deepika, "MFS Provider Wallet", (Co-Supervisor, Mr. Gyanesh Singh), 2015.
43. Amit Kumar Trivedi, "Travel Management System", (Co-Supervisor, Mr. Neeraj Kumar), 2015.
44. Anju Kumari, "Easy and Safe Bus Reliable Service", (Co-Supervisor, Mr. V Sravan Kumar), 2015.
45. Annant Lal Gupta, "Online Institute Management System", (Co-Supervisor, Mr. Avnish Kr. Singh), 2015.
46. Ranjeet Kumar, "E-Post Office System", (Co-Supervisor, Mr. Tanay Mishra), 2015.
47. Samriddha Biswas, "Introduction to Credit Risk Management, PCLI and Affordability", (Co-Supervisor, Mr. Alok Rustagi), 2015.
48. Sneha Bhowmick, "Payments and Services Hub", (Co-Supervisor, Mr. Krishnananda Pai), 2015.
49. Dharmendra Pratap Singh, "Multimedia Streaming Protocols", (Co-Supervisor, Ms. Soma Bandhyopadhyay), 2015.
50. Pranesh Kumar, " Document Protector with Watermark Maker", (Co-Supervisor, Mr. A. Haribabu), 2015.

### **List of Publications**

#### **(a) Journals**

1. S. Jha, **A. K. Mehta**, C. Azad, "A fuzzy logic based approach for prediction of basal cell carcinoma and squamous cell carcinoma among the data of skin cancer," *EAI Endorsed Transactions on Pervasive Health and Technology* (08 2019 – 05 2020) Volume 5, Issue 20, e4.
2. S. P. Singh, V. P. Singh, **A. K. Mehta**, "Differential evolution using homeostasis adaption based mutation operator and its application for software cost estimation," *Journal of King Saud University-Computer and Information Sciences* (2018) Jun 15.
3. P. Singh, C. Azad, **A. K. Mehta**, "Intrusion detection system using classification approach in data mining," *International Journal of Advanced Research in Computer Science* (2018) Jul 1;9(4):20.

4. A. Dubey, **A. K. Mehta**, C. Azad, "A Novel Approach for Information Security in Hadoop," *International Journal for Computer and Mathematical Sciences* 6.6 (2017): 42-47
5. Mona, **A. K. Mehta**, S. S. Ghosh, "Comparison of Feature Selection Algorithm for Classification of Malicious and Benign Java Script," *International Journal of Innovations and Advancement in Computer Science* 6.6 (2017): 57-62
6. S. K. Gouda, **A. K. Mehta**, "Load Balancing in Homogeneous Broadcast Distributed Systems and Grid Networks," *International Journal of Electronics Communication and Computer Engineering* 7.3 (2016): 200-204
7. **A. K. Mehta**, K. Bhattacharya, D. Ray, "Application of Support Vector Network for Power System Static Security Evaluation," *International Journal of Energy Optimization and Engineering (IJEEO)* 4.1 (2015): 55-67.
8. **A. K. Mehta**, D. Ray, K. Bhattacharya, "Application of Reliability Analysis in Expansion of Transmission System," *International Journal of Recent Trends in Engineering and Technology* 1.2 (2009).

#### (b) International Conferences

1. S. K. Gouda, **A. K. Mehta**, "An improved differential evolution algorithm with self adaptive mutation strategies for global optimization," in Proceedings of the 2020 *International Conference on Contemporary Computing and Applications(IC3A)* February 2020, (pp. 87-91) IEEE DOI: [10.1109/IC3A48958.2020.233276](https://doi.org/10.1109/IC3A48958.2020.233276)
2. S. Jha, **A. K. Mehta**, C. Azad, "A fuzzy logic based approach for prediction of basal cell carcinoma," in Proceedings of the *Fourth International Conference on Soft Computing Theories and Applications (SoCTA2019)*, Advances in Intelligent Systems and Computing 1154(pp. 325-334), Springer, Singapore, [https://doi.org/10.1007/978-981-15-4032-5\\_30](https://doi.org/10.1007/978-981-15-4032-5_30)
3. C. Azad, **A. K. Mehta**, V. K. Jha, "Evolutionary Decision Tree-Based Intrusion Detection System," in Proceedings of the *Third International Conference on Microelectronics, Computing and Communication Systems* 2019 (pp. 271-282), Springer, Singapore.
4. C. Azad, **A. K. Mehta**, V. K. Jha, "Improved data classification using fuzzy euclidean hyperbox classifier," *International Conference on Smart Computing and Electronic Enterprise (ICSCEE)* 2018 Jul 11 (pp. 1-6). IEEE DOI: [10.1109/ICSCEE.2018.8538389](https://doi.org/10.1109/ICSCEE.2018.8538389)

5. **A. K. Mehta**, D. Ray, and K. Bhattacharya, "Reliability evaluation of an interconnected system in deregulated market," *International Power Engineering Conference (IPEC 2007)*, pp.270-275, 3-6 Dec. 2007,  
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4510040&isnumber=4509990>
  
6. **A. K. Mehta**, D. Ray, and K. Bhattacharya, "Substation reliability in a restructured power system," *International Power Engineering Conference (IPEC 2007)*. pp.788-793, 3-6Dec.2007,  
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4510133&isnumber=4509990>