Dr. UDAI PRATAP RAO
Assistant Professor
Computer Engineering Department
S. V. National Institute of Technology
Ichchhanath, Surat-395007, Gujarat.
Phone: +91-261-2201768 (Office)
E-mail: upr@coed.svnit.ac.in
Date of Joining: 7th August, 2007

Qualifications:

Ph.D. (Computer Engineering), February 2014 (NIT Surat)

M.Tech. (Computer Science and Engineering), 2006

B.E. (Computer Science and Engineering), 2002

Previous Working Affiliations:

- Computer Science & Engineering Department, Raj Kumar Goyal Institute of Technology Ghaziabad (U.P.), worked for two years.

Research Areas of Interest:

Data Mining, Information Security & Privacy, Location-based Privacy, Big Data Analytics

Research Project:

Title of Project: Implementation of Effective Database Intrusion Detection System (dIDS) to Detect the Insider Attacks, **Funding Agency:** SVNIT Surat (under Institute Research Grant), **Budget:** 9.1 lakh, **Duration:** 2 years, **Status:** Completed in June 2016

Books/Monographs/Book Chapter:

- Udai Pratap Rao and Nikhil Kumar Singh, "Detection of Privilege Abuse in RBAC Administered Database", *Intelligent Systems in Science and Information 2014*, *Springer International Publishing*, pp. 57-76, 2015. **(Book Chapter)**
- SVD Based Database Watermarking for Security in Database, published by *LAMBERT Academic Publishing (LAP)*, ISBN 978-3-8465-2410-7, Oct. 2011.

Publications in Journals :

1. Ruchika Gupta, Udai Pratap Rao, "An Exploration to Location Based Service and Its Privacy Preserving Techniques: A Survey", *Wireless Personal Communications*, Springer, 2017, pp. 1-35.

2. Ruchika Gupta, Udai Pratap Rao, "Achieving Location Privacy through CAST in Location Based Services", *Journal of Communications and Networks,* IEEE Comp.Soc., vol. 19, no. 3, 2017, pp. 239-249.

3. Ruchika Gupta and Udai Pratap Rao, "A Hybrid Location Privacy Solution for Mobile LBS", **Mobile Information Systems**, vol. 2017, Article ID 2189646, 2017, pp. 1-11. doi:10.1155/2017/2189646.

4. Udai Pratap Rao, Nikhil Kumar Singh, "Weighted Role Based Data Dependency Approach for Intrusion Detection in Database", *International Journal of Network Security*, Vol.19, No.3, PP.358-370, 2017.

5. Udai Pratap Rao, Dhiren R. Patel, "Incorporation of Application Specific Information for Recovery in Database

from Malicious Transaction", ***Information Security Journal: A Global Perspective, Taylor & Francis***, Vol. 22, No. 1, pp. 35-45, 2013.

6. G. J. Sahani, Keyur Suthar, Udai Pratap Rao, "A Proposed Power Saving Scheme for Distributed Systems by Powering On/Off Computers Remotely", ***International Journal of Advanced Research in Computer Science and Software Engineering***, Vol. 2, Issue 3, 2013.

7. Udai Pratap Rao, Dhiren R. Patel, "Design and Implementation of Database Intrusion Detection System for Security in Database", ***International Journal of Computer Applications***, Volume 35 - Number 9, pp. 32-40, 2011.

8. Udai Pratap Rao, G. J. Sahani, Dhiren R. Patel, "Detection of Malicious Activity in Role Based Access Control (RBAC) Enabled Databases", ***International Journal of Information Assurance and Security***, pp. 611-617, Volume 5, Issue 6, USA, ISSN 1554-1010,2010.

9. Udai Pratap Rao, G. J. Sahani, Dhiren R. Patel, "Clustering Based Approach for Database Intrusion Detection in Role Based Access Control (RBAC) Enabled Databases", ***International Journal of Computer and Network Security***, pp. 71-74, Vol.2, No.6, June 2010.

10. Chirag N. Modi, Udai Pratap Rao, Dhiren R. Patel, "An Efficient Solution for Privacy Preserving Association Rule Mining using Unknowns", ***International Journal of Computer and Network Security***, pp. 79-85, Vol.2, No.5, May 2010.

11. P. H. Dave, Udai Pratap Rao, "A New Approach For Document Indexing***", International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences (IJ-ETA-ETS),*** Volume 3 : Issue 2, July '10 – Dec '10.

12. Parag dave and Udai Pratap Rao, "A Review of Content Extraction" ***IETE Journal of Education***, ISSN: 0970-1664, Volume 50, No. 1, Jan-Apr 2009.

13. Udai Pratap Rao, "A Proposed Architecture to Support Unsupervised Data Mining Technique for Automatic Video Summarization", ***International Journal of Computing and Mathematical Applications***, ISSN: 0974-4312, December 2008.

Publications in Conferences:

14. Brijesh B Mehta, Udai Pratap Rao, "Towards Scalable Anonymization for Privacy Preserving Big Data Publishing", In the proceedings of ***5th International Conference on Advanced Computing, Networking, and Informatiics (ICACNI-2017)***, Springer, 2017. (to be published)

15. Brijesh B Mehta, Udai Pratap Rao, Nikhil Kumar, and Sravan Kumar Gadekula, "Towards Privacy Preserving Big Data Analytics", In the proceedings of ***Sixth International Conference on Advanced Computing & Communication Technologies (ACCT-2016)***, Research Publishing, pp. 28-35, Sept. 2016. ISBN: 978-981-11-0783-2, doi:10.3850/978-981-11-0783-2 390.

16. Dilay Parmar, A. Sathish Kumar, Ashwin Nivangune, Padmaja Joshi, and Udai Pratap Rao, "Discovery and Selection Mechanism of Cloudlets in a Decentralized MCC environment", In the proceedings of ***third IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft 2016)***, ACM, Austin (TX), USA, 2016.

17. Litun Patra, Udai Pratap Rao, "Internet of Things – Architecture, Applications, Security and other Major Challenges", In the proceedings of ***10th INDIACom; 2016 3rd International Conference on Computing for Sustainable Global Development***, March, pp. 1894- 1899, 2016.

18. Ruchika Gupta, Udai Pratap Rao, "Privacy Protection through Hiding Location Coordinates using Geometric Transformation Techniques in Location Based Services enabled Mobiles" In the proceedings of *50th Annual Convention of Computer Society of India (CSI)*, Delhi, Springer, Dec. 2015.

19. B. Mehta, U. P. Rao, "Privacy Preserving Unstructured Big Data Analytics: Issues and Challenges," In the proceedings of *First International Conference on Information Security and Privacy(ICISP)*, Nagpur, India, vol. 78, Elsevier Procedia Computer Science, Dec. 2015.

20. Domadiya Nikunjkumar H., Udai Pratap Rao, "A Hybrid Technique for Hiding Sensitive Association Rules and Maintaining Database Quality", In the proceedings of *International conference on ICT for intelligence system (ICTIS)*, Smart Innovation, Systems and Technologies Series, Springer, Ahmedabad, India, vol. 2, pp. 359-367, Nov 2015.

21. Udai Pratap Rao, Harshal Girme, "A Novel Framework For Privacy Preserving In Location Based Services", In the proceedings of *Fifth International Conference on Advanced Computing & Communication Technologies*, IEEE, pp. 272-277, 2015.

22. Ruchika Gupta, Udai Pratap Rao, "An Exploration to Privacy issues in Location Based Services", *3rd Security and Privacy Symposium*, IIIT –Delhi, February 13 - February 14, 2015.

23. Udai Pratap Rao, Nikhil Kumar Singh, Akash R. Amin, Kushal Sahu, "Enhancing Detection Rate in Database Intrusion Detection System", In the proceedings of *Science and Information Conference 2014*, IEEE, London, pp. 556-563, 2014.

24. Domadiya Nikunjkumar H., Udai Pratap Rao, " Hiding Sensitive Rules to Maintain Privacy and Data Quality in Database", In the proceedings of *3rd IEEE International Advance Computing Conference* (IACC-2013),India, pp. 1301-1305, 2013.

25. U. P. Rao, D. R. Patel, and P. M. Vikani, "Relational Database Watermarking for Ownership Protection", In the proceedings of *Procedia Technology, Elsevier*, 6, 988-995, 2012.

26. A. C. Patel, U. P. Rao, and D. R. Patel, "Privacy preserving association rules in unsecured distributed environment using cryptography", In the Proceedings of the *Third International Conference on Computing Communication & Networking Technologies (ICCCNT)*, pp. 1-5, **IEEE,** July 2012.

27. Udai Pratap Rao, Dhiren R. Patel, "Database Security Architecture for Detection of Malicious Transactions in Database", In the proceedings of the *International Conference on Security and Management (SAM),WORLDCOMP'11, USA*, pp. 353-357,2011.

28. Brijesh B. Mehata, Udai Pratap Rao, "A Novel Approach as Multi-place Watermarking for Security in Database", In the proceedings of the *International Conference on Security and Management (SAM),WORLDCOMP'11, USA*, pp. 703-707,2011.

29. Udai Pratap Rao, Anita Parmar, Dhiren R. Patel, "Blocking based approach for classification Rule hiding to Preserve the Privacy in Database", In the proceedings of the *IEEE International Symposium on Computer Science and Society (ISCCS 2011), Kota Kinabalu, Malaysia*, pp. 323-326, July 2011.

30. Madhuri Agravat, Udai Pratap Rao, "Computer Intrusion Detection By Two- Objective Fuzzy Genetic Algorithm", In the proceedings of *International Conference on Computer Science, Engineering and Applications (CCSEA-2011)*, CS & IT 02, pp.281-292, 2011. *doi: 10.5121/csit.2011.1226*

31. Udai Pratap Rao, Dhiren R. Patel, "A Survey of Database Intrusion Detection Approaches for Database Security", In the proceedings of the *International Conference on Computing, Communication and Information Technology Applications(CCITA 2010),* ISBN 978-81-909789-0-3, Coimbatore, pp.222-227, January 2010.

32. Chirag N. Modi, Udai Pratap Rao, Dhiren R. Patel, "A Survey on Preserving Privacy for Sensitive Association Rules in Databases", In the proceedings of *International Conference on Recent Trends in Business Administration and Information Processing (BAIP 2010)* *Trivandrum, Kerala*, pp. 538–544, **LNCS-CCIS series, Springer- Verlag Berlin Heidelberg 2010**, ISBN 978-642-12213-2.

33. Chirag N. Modi, Udai Pratap Rao, Dhiren R. Patel, "Maintaining Privacy and Data Quality in Privacy Preserving Association Rule Mining" In the proceedings of *Second International Conference on Computing, Communication and Networking Technologies 2010*, pp.1-6, **IEEE Computer Society**, pp. 29-31,s July 2010.

34. Chirag N. Modi, Udai Pratap Rao, Dhiren R. Patel, "An Efficient Approach for Preventing Disclosure of Sensitive Association Rules in Databases", In the proceedings of the *2010 International Conference on Information & Knowledge Engineering, IKE 2010*, July 12-15, 2010, **Las Vegas Nevada, USA**. CSREA Press 2010, ISBN 1-60132-151-1, pp. 303-309.

35. Chirag N. Modi, Udai Pratap Rao, Dhiren R. Patel, "Elliptic Curve Cryptography Based Mining of Privacy Preserving Association Rules in Unsecured Environment", In the proceedings of *International Conference on Advances in Communication, Networking and Computing (CNC).* pp. 94-98, **IEEE Computer Society**, October 2010.

36. Udai Pratap Rao, G. B. Jethava, Dhiren R. Patel, "Database Intrusion Detection Approach to Enhance Database Security system", In the proceedings of *International Conference on Advances in Communication, Networking and Computing (CNC).* pp. 205-208, **IEEE Computer Society**, October 2010.

37. Udai Pratap Rao, G. J. Sahani, Dhiren R. Patel, "Machine Learning Proposed Approach for Database Intrusion Detection in Role Based Access Control (RBAC) Enabled Databases", In the proceedings of *Second International Conference on Computing, Communication and Networking Technologies 2010*, pp.1-4, **IEEE Computer Society**, July 2010

38. Udai Pratap Rao, "Video Data Mining Framework for Information Retrieval", In the Proceedings of *International Conference on Content Based Image Retrieval, Bangalore*, pp.109-111, July 2008.

39. Udai Pratap Rao and Mukesh A. Zaveri, "Video Data Mining: An Architectural Review", In the proceedings of *National Research Conference on Challenges and Innovations in Information Technology* *(CIIT-2008)*, Erode, Feb. - 2008, pp.7-10.

40. Udai Pratap Rao, "Classification Technique for Medical Video Mining", In the proceedings of *National Conference on Data Engineering and Intelligent Systems*, Bhopal, pp. 64-65, March 2008.

41. Udai Pratap Rao "Clustering Technique Approach to Detect the Special Patterns for Medical Video Mining" , In the proceedings of *International Conference on Intelligent System & Networks, Haryana*, pp.26-30, Feb. 2007.

42. Udai Pratap Rao, Prof. Manish Manoria "Video Data Mining: Key Frame Analysis for Events Detection in Medical Video" , In the proceedings of **3**[rd] *International Conference on Electronics & Computer Engineering., Bishkek, Kyrgyzstan*, pp.148-153, April 2006,

43. Prof. Manish Manoria, Udai Pratap Rao, "Video Mining as an Innovative Approach for Detection of Special Pattern from Medical Video", In the proceedings of *2nd National Conference on Innovations in Information & Communication Technology*, Coimbatore, July 2006.

44. Udai Pratap Rao,Prof. Prof. Manish Manoria "A Proposed Architecture of Data Mining on Video data for Extraction of Knowledge based Information" , In the proceedings of *7th International Conf on Business*

Transaction the road ahead under IT diffusion and Integration, Delhi, Nov. 2005. (Accepted Only For Presentation).

Ph.D. Supervision (on going):

1. Mr. Brijesh B. Mehta (D14CO002)- Big Data Privacy
2. Mrs. Ruchika Gupta (D14CO003)- Privacy in Location-based Services
3. Mr. Nikunj Domadiya (DS14CO004)- Privacy Preserving Data Mining/ Secure multi-party computation
4. Mr. Vishal Shah (DS15CO005)- Modeling and Enforcing ABAC model in dynamic and open environments
5. Mr. Yogesh Kapuriya (DS15CO002)- IoT Data Analytics & Visualization

M. Tech Dissertation Supervision:

2008-09

1. Delete My Track : Rolling Back the Status of Hard Drive –Shanavaz Meman (P07CO954)

2009-10

2. Efficient Approaches for Privacy Preserving Association Rule Mining in Different Environments – Mr. Chirag Modi (P08CO956)
3. Database Intrusion Detection Using Auditing and Transaction Profiling Mechanisms – Mr. G.B. Jethwa (P08CO976)
4. Database Intrusion Detection in Role Based Access Control (RBAC) Enabled Databases- Mr. G. J. Sahani (P08CO978)
5. Workflow Automation System- Mr. Ramashankar Bhawre (P08CO964)

2010-11

6. Multi-place Database Watermarking for Security in Database- Mr. Mehta Brijesh (P09CO970)
7. SVD Based Database Watermarking - Mr. Vidhya Goutham (P09CO976)
8. Privacy Preserving Using Classification Rule Hiding- Ms. Parmar Anita (P09CO982)
9. Network Intrusion Detection by Two-Objective Fuzzy Genetic Algorithms – Ms. Agravat Madhuri (P09CO961)
10. Multi-dimensional and Multi-level Data Dependency with Attribute Sensitivity for Database Intrusion Detection-Mr. Indre Jeet Rajput (P09CO964)
11. Design and Implementation of Privacy Preserving Clustering Algorithm Based on Shamir's Secret Sharing - Ms. Garasia Sweta (P09CO957) (jointly Dr. Sankita Patel, SVNIT Surat)

2011-12

12. Privacy Preservation of Association Rule Mining in Unsecured Distributed Database using Cryptography- Mr. Ashish Patel (P10CO985)
13. Watermarking Relational Database for Ownership Protection – Mr. Vikani Punitkumar (P10CO954)
14. Recovery in Database from Malicious Transactions- Mr. Dilip Kumar (P10CO983)
15. Implementation of Database Intrusion Detection Mechanism- Mr. Jay Kant Pratap Singh Yadav (P10CO997)

2012-13

16. Efficient Approaches for Preserving Privacy in Association Rule Mining- Mr. Domadiya Nikunjkumar H.(P11CO002)

17. Improving Accuracy of Database Instruction Detection System by Including Details of Attribute Access Patterns- Mr. KUSHAL SAHU (P11CO015)

18. Detection of Malicious Activities in RBAC-Administered Database- Mr. Pandavkumar K. Patel (P11CO003)

19. Reducing False Positives in anomaly based Detection of Malicious Activities in Database- Mr. Amin Akash Rajeshkumar (P11CO018)

2013-14

20. Weighted Role Based Intrusion Detection in Databases- Mr. Nikhil Kumar Singh (P12CO009)

21. A Novel Framework for Privacy Preserving in Location Based Services- Mr. Harshal Girme (P12CO008)

22. Finding Global Frequent Itemsets For Secure Mining of Association Rules In Horizontally Partitioned Databases Using Randomized Addition Technique- Mr. Arpesh Kumar (P12CO005)

23. An Anonymization Approach For Re-Publication of Fully Dynamic Datasets- Mr. Akhileash kumar Singh (P12CO010)

2014-15

24. Investigating Privacy Preserving Mechanism For Location Based Services- Mr. Manish Kumar (P13CO005)

25. Detection And Prevention Of Anomalous Queries In Database- Mr. Methuku Sunil Kumar (P13CO013)

2015-16

26. Design and Implementation of Communication Protocols for Decentralized Cloudlet Environment- Mr. Dilay A. Parmar (P14 CO 019) (jointly C-DAC Mumbai, Dr. Padmaja Joshi)

27. Behaviour Analysis in Video Surveillance Systems- Mr. Patel Shreyaskumar Naranbhai (P14CO018) (jointly C-DAC Mumbai, Dr. Urjaswala Vora)

28. Controlling Access to eHealth Data Efficiently Using Request Denial Cache in XACML Reference Architecture for ABAC- Mr. Litun Patra (P14CO005)

29. Utility Improving Anonymity for Sequential Data Publishing- Mr. Malaviya Jayesh Vallabhbhai (P14CO006)

2016-17

30. Improved Pearson Similarity for Collaborative Filtering Recommendation System using Mahout- Mr. Gadekula Sravan Kumar (P15 CO004)

31. Privacy Preserving Big Data Publishing using k-anonymity and l-diversity- Mr. Nikhil Kumar (P15 CO009)

32. Low Cost Big Data Analytic Solution for PMT- Ms. Naik Shruti Chetanbhai (P15 CO006) (jointly Philips Innovation Campus, Bangalore, Mr Sharath Kalyan)

33. Big Data Security Framework for Secure Data Storage and Sharing- Mr. Laxman Didwal (P15 CO016)

M Tech (Research) Supervision:

1. Multi-Level Processing of Text for Information Retrieval- Mr. Parag Dave (R08CO951)

Conducted Workshop / Seminars for Faculty / Industry People:

Sr. No.	Title	Duration
1.	QIP Short Term Course on **"Advances in Big Data Analytics"** at Computer Engineering Department, SVNIT Surat	December 12-16, 2016
2.	TEQIP-II Sponsored STTP on **"Big Data and Hadoop (BDH 2016)"** at Computer Engineering Department, SVNIT Surat **(as Co-Coordinator)**	October 24-28, 2016
3.	TEQIP-II Sponsored STTP on **"Big Data Analytics (BDA 2016)"** at Computer Engineering Department, SVNIT Surat	27th June- 01st July 2016
4.	TEQIP-II Sponsored STTP on **"Big Data and Advanced Video Compression"** at Computer Engineering Department, SVNIT Surat	29th June - 3rd July, 2015
5.	TEQIP-II Sponsored STTP on **"Data Mining: Security and Privacy Issues"** at Computer Engineering Department, SVNIT Surat	June 23-27, 2014
6.	STTP on **"Computer Architecture"** at Computer Engineering Department, SVNIT Surat	December 21-25, 2009

Seminar / Workshop/ Short term courses/schools/conferences attended:

Sr. No.	Title and Venue	Duration
1.	National Workshop On Cyber Security: Current Trends and Future Perspective (CSCTFP) at National Institute of Technology, Kurukshetra	March 1-3, 2017
2.	Three days Intensive Hindi Training Workshop at SVNIT Surat.	May 23-25, 2016
3.	Attended two days 5th IEEE International Conference on Advanced Computing & Communication Technologies (ACCT- 2015)	Feb 21-22, 2015
4.	Attended three days Science and Information Conference 2014 at London.	August 27-29, 2014
5.	One day seminar on "Good Governance" under TEQIP-II and organized by SVNIT Surat.	September 9, 2014
6.	Four days STTP on "Cloud Computing" under TEQIP-II and organized by Computer Engineering Department, SVNIT Surat.	March 10-13, 2014
7.	Two days workshop on "Objective & Outcome Based Education" under TEQIP-II and organized by SVNIT Surat.	December 21-22, 2013
8.	One week STTP on "Hardening Cyber Security" under TEQIP-II and organized by Computer Engineering Department, SVNIT Surat.	June 10-14, 2013
9.	One week Pedagogy Training Programme on "Developing Teachers for Effective Teaching & Research" under TEQIP-II and organized by SVNIT Surat.	June 3-7, 2013
10.	Three days Symposium on Security and Privacy at Computer Science and Engineering Department at IIT Kanpur.	Feb. 28- March 2, 2013
11.	Two-day ISTE Workshop on "Aakash for Education" conducted by	Nov. 10-11, 2012

	IIT Bombay.	
12.	One week programme on "Condensed Transalation Training Course Certificate" organized by Central Translation Bureau, Department of Official Language, Ministry of Home Affairs at SVNIT surat India.	Nov. 26-30, 2012
13.	One week IFIP WG11.11- 6thInternational Conference on Trust Management at Computer Engineering Department at NIT Surat, India.	May 21-25, 2012
14.	One week IFIP WG11.11-ISEAP Sponsored International Winter School on Trust Management in ICT at Computer Engineering Department at NIT Surat, India.	February 6-10, 2012
15.	Two days National Workshop on Natural Energy Conservation and Use at SVNIT during	September 29-30, 2011.
16.	STTP on Analysis and Design of Algorithms at SVNIT Surat	January 4-8, 2010.
17.	AICTE/ISEA Sponsored STTP on Advances in Data Structure during 14-18, December 2009 at SVNIT Surat.	December 14-18, 2009
18.	One day Workshop on "Biometric Authentication" at C-DAC Mumbai	November 18, 2009
19.	CRSI 9th National Workshop on Cryptology at SVNIT Surat.	August 7-9, 2009
20.	One Week Indo US collaboration for engineering education (IUCEE)-2009 at Infosys, Mysore Karnataka.	July 6-10 ,2009
21.	AICTE/ISEA Sponsored STTP on Cyber Security at SVNIT Surat.	January 19-23, 2009
22.	One Week Staff Development Programme on Machine Learning & Soft Computing Techniques (MLSC 2008) at SVNIT Surat.	December 29 – January 2, 2009
23.	STTP on Advanced Engineering Optimization through Intelligent Techniques at SVNIT Surat.	December. 22-26,2008
24.	Training Program on Multi-Criteria Decision Making and its Industrial Applications during at SVNIT Surat.	October. 4-5,2008
25.	STTP on Computer Vision and Image Processing at SVNIT Surat	July 7-11, 2008
26.	Staff Development Program on Curriculum Enhancement In Design Of Embedded Systems And Its Applications at NIT Allahabad	June 16 – June 27, 2008.
27.	Research Methodology Training Program at SardarVallabhbhai National Institute of Technology, Surat (organized by EQUATE New Delhi)	May 16-17, 2008.
28.	Pedagogy (teaching methodology) Training Program at SardarVallabhbhai National Institute of Technology, Surat (organized by EQUATE New Delhi	May 12-15, 2008.
29.	Training Program on CDEEP (Centre for Distance Engineering Education Program) & EDUSAT IIT Bombay.	January 19-20, 2008
30.	Induction Training Program at SardarVallabhbhai National Institute of Technology, Surat (organized by EQUATE New Delhi)	January 15-17, 2008.
31.	National Seminar : Engineering of Software Products : Requirements To Deleverables NIT Durgapur	January. 9-11, 2008

Expert Lectures and Keynote addresses:

Sr. No.	Title	Name of programme/course
1.	Privacy Risks and Countermeasures in Data Publishing	STTP on **"Cyber privacy and Ethical hacking"** during 1st May to 6th May, 2017 at Birla Vishvakarma Mahavidyalaya Engineering College (BVM), Vidhyanagar Anand. (on 05th May 2017)
2.	Big Data Computation	During **LbC (Lecture beyond Curriculum)** session at SVNIT Surat. (on 12th April 2017)
3.	Big Data Computation and Deep Learning	Two days Workshop on **"Advanced Computing: Introduction to High-performance Computing Technologies"** at PIT, Parul University during 29-30 March 2017. (on 30th March 2017)
4.	Data Publishing: Privacy Attacks and Countermeasures	Five days Short Term Training Program on **"Data Mining Applications with Big Data Analytics"** at CGPIT Bardoli, during 9 to 13 January, 2017. (on 10th December 2017)
5.	Deep Learning Methods for Big Data Analytics	Five days Short Term Training Program on **"Data Mining Applications with Big Data Analytics"** at CGPIT Bardoli, during 9 to 13 January, 2017. (on 10th December 2017)
6.	Deep learning & Significance and Challenges of Big Data Research	QIP Short Term Course on **"Advances in Big Data Analytics"** at Computer Engineering Department, SVNIT Surat during December 12-16, 2016. (on 13th December 2016)
7.	Privacy Aware Access Control for Big Data	QIP Short Term Course on **"Advances in Big Data Analytics"** at Computer Engineering Department, SVNIT Surat during December 12-16, 2016. (on 13th December 2016)
8.	NoSQL Databases and their Security Issues	QIP Short Term Course on **"Advances in Big Data Analytics"** at Computer Engineering Department, SVNIT Surat during December 12-16, 2016. (on 13th December 2016)
9.	Privacy Preserving Data Publishing: k-anonymization Algorithms	QIP Short Term Course on **"Advances in Big Data Analytics"** at Computer Engineering Department, SVNIT Surat during December 12-16, 2016. (on 12th December 2016)
10.	Introduction to Big Data Analytical Methods	QIP Short Term Course on **"Advances in Big Data Analytics"** at Computer Engineering Department, SVNIT Surat during December 12-16, 2016. (on 12th December 2016)
11.	Big data concepts	QIP Short Term Course on **"Advances in Big Data Analytics"** at Computer Engineering Department, SVNIT Surat during December 12-16, 2016. (on 12th December 2016)
12.	Big Data Analytics: Concepts & Methods	During **Faculty Development Programme (FDP)**, Bhabwan Mahavir College of Computer Application, Surat on 09th October 2016.
13.	Mathematics of Cryptographic &	During **Faculty Development Programme**

	Research directions in Big Data	**(FDP)**, PIT, Parul University, Vadodara on 04th October 2016.
14.	Privacy Preserving Big Data Publishing	TEQIP-II Sponsored STTP on **"Big Data Analytics"** at Computer Engineering Department, SVNIT Surat during 27th June – 1st July, 2016. (on 29th June 2016)
15.	Big data concepts and analytical methods	TEQIP-II Sponsored STTP on **"Big Data Analytics"** at Computer Engineering Department, SVNIT Surat during 27th June – 1st July, 2016. (on 27th June 2016)
16.	Privacy Preserving Data Publishing	STTP on **"Privacy, Security Engineering and Ethical Hacking"** at Information Technology (IT) department, L.D. College of Engineering, Ahmedabad during June 20-24, 2016. (on 21st June 2016)
17.	Big Data Analytical Methods and Privacy Issues in Data Mining	Charutar Vidya Mandal (CVM) Sponsored Two Days Workshop on "Recent Avenues of Research In Information Technology" April 29-30, 2016 at GCET Vallabh Vidyanagar (on 29th April, 2016)
18.	Big Data Analytical Methods	At PIT, Parul University, Vadodara on 13th April 2016.
19.	Anonymization Techniques	National Conference on Computer and Communication Research (NC3R) during 26-27 February 2016 at Vadodara Institute of Engineering (on 26th February 2016)
20.	Privacy Preserving Data Publishing	One Week National Workshop on **Machine Learning and Data Analytics** at Government Women Engineering College Ajmer during 14th - 18th January, 2016. (on 16th Jan 2016)
21.	Big Data and its scope	One Week National Workshop on **Machine Learning and Data Analytics** at Government Women Engineering College Ajmer during 14th - 18th January, 2016. (on 16th Jan 2016)
22.	Privacy Preserving Data Publishing	At SCET Surat (on 14th August 2015)
23.	Introduction to Big Data	TEQIP-II Sponsored STTP on **"Big Data and Advanced Video Compression"** at Computer Engineering Department, SVNIT Surat during 29th June - 3rd July, 2015. (on 1st July 2015)
24.	Privacy Preserving Data Mining	6th National Conference on Emerging Vistas of Technology in 21st Century (NCEVT'15) during 3rd and 4th April, 2015.
25.	Privacy Preserving in Location Based Services	TEQIP-II sponsored STTP on **"Data Mining: Security and Privacy Issues"** at Computer

		Engineering Department, SVNIT Surat during 23-27 June 2014.
26.	Database Intrusion Detection using Data Mining	TEQIP-II sponsored STTP on **"Data Mining: Security and Privacy Issues"** at Computer Engineering Department, SVNIT Surat during 23-27 June 2014.
27.	Privacy Preserving Association Rule Mining Algorithms	TEQIP-II sponsored STTP on **"Data Mining: Security and Privacy Issues"** at Computer Engineering Department, SVNIT Surat during 23-27 June 2014.
28.	Introduction to Privacy Preserving Data Mining	TEQIP-II sponsored STTP on **"Data Mining: Security and Privacy Issues"** at Computer Engineering Department, SVNIT Surat during 23-27 June 2014.
29.	Privacy in Location Based Services	Research Week-2014, Gujarat Technological University, Ahmedabad (Gujarat). (on 22nd March 2014)
30.	Privacy Preserving Techniques For Location Based Services In Mobile Networks	1st International Conference On **Contemporary Issues in Engineering & Technology** at Merchant Engineering College, Basna, Mehsana (Gujarat) during 19-21March 2014.
31.	Protecting Database from Malicious Transactions	National Conference **on Recent Trends in Soft Computing (RTSCOMP 11)** at Bansal Institute of Science and Technology Bhopal during 6th-7th September 2011.
32.	An Introduction to Data Mining	AICTE Sponsored short term course on **Knowledge Management Issues and Challenges** at SVNIT, Surat during 4-8 Jan 2010. (on 6 January, 2010)
33.	Distributed Computer Architecture	AICTE Sponsored short term course on **Computer Architecture** at SVNIT, Surat during 21-25 December 2009. (on 25 December 2009)

Paper Reviewer in International and National Journals/Conferences:

Sr. No.	Name of Journal or Conference	No. of Papers Reviewed
1.	IET The Journal of Engineering (Jan 2017)	01
2.	International Conference on Research and Innovations in Science, Engineering & Technology, 2017, BVM, Vallabh Vidyanagar, Ananad	03
3.	National Conference on "Recent Trends in Computer and Communication Technology" RTCCT 2016 , 10 - 11 May, 2016	02

4.	Journal of AI and Data Mining	01
5.	1st International Conference on Next Generation Computing Technologies (NGCT 2015) during 4-5 September 2015	3
6.	International Conference on Computing, Communication and Automation (ICCCA2015) during15-16 May 2015	3
7.	2nd IEEE Internation Conference on Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN-2014) during 26-27 December 2014 at SVNIT Surat	01
8.	National Conference on "Emerging Vista of Technology in 21 Century" during 4th-5th April 2014	5
9.	National Conference on "Emerging Vista of Technology in 21 Century" during10th-11th May 2013	5
10.	Information Security Journal: A Global Perspective **(Taylor & Francis Journal)**	1
11.	International Journal of Network Security	1
12.	International Journal of Computer and Electrical Engineering	1
13.	National Conference on Recent Trends In Engineering & Technology, at BVM, Vallabh Vidyanagar - 388120	2

Member of Technical Societies

Sr. No.	Name of Association / Society	Category	Membership No.
1	Association for Computing Machinery (ACM)	Professional Membership	3009101
2	International Association of Engineers (IAENG)	IAENG Member	106491

Book Reviewed:

1. Book chapters reviewed- Title of the Book- **Network Security (Oxford University Press)**- October 2012.
2. Book chapters reviewed- Title of the Book- **Data Mining and Warehousing (Pearson India Education Press)** - August 2015.
3. Book chapters reviewed- Title of the Book- **Big Data Analytics (Cambridge University Press)** - October 2015.

Conference Session Chaired and Member:

1. Chaired the sessions of paper presentation at BAIP-2010 during 26 and 27 March 2010 at Trivendrum, Kerala (Proceeding published by LNCS-CCIS Springer).
2. Chaired the sessions of paper presentation at Second National Conference on Emerging Vistas of Technology in 21st Century, 4th & 5th December 2010 at Parul Institute of Engineering and Technology, Vadodara (Gujarat).
3. Member in Advisory Committee in National Conference on Computer and Security (April 5-6, 2013) at Sardar Vallabhbhai Patel Institute of Technology (SVIT), VASAD-388306, Gujarat, INDIA.

4. Chaired the sessions of paper presentation at 1st International Conference On Contemporary Issues in Engineering & Technology at Merchant Engineering College, Basna, Mehsana (Gujarat) during 19-21March 2014.

5. Member in National Advisory Board in ISTE Sponsored National Conference (IICE-2015) , CHANDIGARH UNIVERSITY, MOHALI, 17 April 2015

6. Chaired the sessions of paper presentation at 6th National Conference on Emerging Vistas of Technology in 21st Century (NCEVT'15) during 3rd and 4th April, 2015.

7. Technical Program Committee member in Asia Security and Privacy Conference Jan 29- Feb 1, 2017 at NIT Surat, India

Academic Awards/ Fellowships/ Scholarships

1. **National Scholarship** from 10th Std. till Graduation (received meritorious student's financial assistantship from U.P.Board till B.E. duration).

2. Qualified GATE 2003 with 91.17 percentile score.

Administrative and Other responsibilities, Innovative Practices etc:

1. Co-coordinator of MIS, since 11th March 2015.

2. Exam Time Table committee Member, since 28th February 2017.

3. PG In-charge of M.Tech.(Computer Engineering), 03rd February 2010- 27th February 2017.

4. In-charge–PG Examination, Time Table, and Accreditation, 03rd February 2010-- 27th February 2017.

5. In-charge of Central Computer Centre during 4 Jan- 18 March 2016 (Ref No. CoED/MAZ/CCC/925/2015-16 dated 1st Jan, 2016)

6. PG In-charge of M.Tech.(Computer Engineering), 23rd September 2008-02nd February 2010 .

7. In-charge–PG Examination and Time Table, 23rd September 2008-02nd February 2010.

8. Chief Warden of H-8 (Tagore Bhavan), January 2014- June 2014.

9. A member of official language of the institute (HINDI CELL) during year 2011.

10. Hostel warden, Council of Wardens, Feb. 2008 to Dec. 2013.

11. Registration committee member for Convocation Function-2007 and 2013.

Signature

Dr. Udai Pratap Rao