

# Resume

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## Educational Qualification

- **Ph.D (Engineering)** NMIMS University, Mumbai
- **M.E. (Computer Science & Engg.)** , Walchand College of Engg ,Sangli.  
(First Class)
- **B.E. (Computer Science & Engg.)** ,College of Engg, Badnera (First Class ).

**Professional Membership:** ISTE Life member ( LM 40575)

**PhD Students (Mumbai University) :** 8 **Research Scholar Registered.**

**Scopus Index Profile Link**

<https://www.scopus.com/authid/detail.uri?authorId=36807190900>

**Google Scholar Profile Link**

<https://scholar.google.com/citations?user=VnkGTA0AAAAJ&hl=en>

**M.E / M.Tech. Project Guided: 27**

- Insider threat detection using Log Analysis and Event Correlation
- A deviant load shedding system for data stream mining
- Performance evaluation of olsr protocol in MANET under the influence of routing attack
- Real time messaging server using duplex web service
- Twitterati identification system using a novel mining approach
- Conservation of energy by prevention of denial\_of\_sleep attack in WSN,Blocking of rogue nodes by secure authentication in wireles sensor network

- An Enhanced Authentication Mechanism to Secure Reprogramming in WSN  
Implementation of Pattern matching algorithm to defend SQLIA
- Trustworthiness Evaluation System in E-commerce Context
- Prevention of session Hijacking Attack using Enhanced session binding techniques.
- Security Against Sybil Attack in Social Network
- Security protocol for wireless sensor network to prevent node cloning attack.
- Intelligent Tutoring System for Learning English Punctuation.
- Novel architecture for analysis of mobile botnet detection using Machine Learning for Android.
- Antiphishing mechanism for Android phones
- Design a smart and intelligent interface for physically disabled
- Efficient energy management of a wireless sensor network for increased network lifetime
- Wearable wireless real time monitoring device for anywhere, anytime health
- Design a smart and intelligent routing network using optimization technique
- Design a smart model for analysing data from social media to gain competitive
- 3D Socio graphical CAPTCHA based on ReCAPTCHA (SGreCAPTCHA) against spammers and Bot
- An hybrid approach to detect phished emails
- Cued click Authentication
- Improving the lifetime of 6LoWPAN based WSN using Fuzzy logic clustering
- Analysing opinion of trading expert to predict behaviour of stock market using machine learning

## **BE Project Guided: 40**

### **Teaching Experience (23 Years)**

- Working as **Professor**, Dept. of Computer Engineering, D.J. Sanghvi College of Engineering from Feb -2020 to Till Date.
- Worked as Head, Dept. of Computer Engineering, D.J.Sanghvi College of Engineering from Sept -2012 to Jan -2020.
- Worked as Asst. Professor with D.J.Sanghvi College of Engg from June 2007 to 04-June 2013
- Worked as lecturer with D.J.Sanghvi College of Engg. from Sept 2004-June 2007
- Worked as lecturer with Lokmanya Tilak College of Engg from June 1997-Aug 2004

- Worked as lecturer with Fr. Agnel College of Engg. From Feb 1996- June 1997

**Industries Experience ( 8 Month ) :** Worked as Customer Executive with MGA Pvt Ltd. From June 1995 –Feb 1996

**Subject taught: PG Level ( M.E. Computer Engineering)**

Cyber Security, Cyber Security and Law, Ethical Hacking and Digital Forensics, Network Design and Management, Secure Coding.

**UG Level ( B.E Computer Engineering )**

System Security, Computer Network, Operating System, Data Structure, Object Oriented Programming Methodology, Software Engineering, Computer Architecture & Organization, Java Programming, C Prog. Programming, Data Mining.

**Patents Published:**

**Title of the Invention:** AN IMPROVED METHOD FOR SENTIMENT ANALYSIS USING A NOVEL APPROACH FOR CROSS DOMAIN ADAPTATION.

**Date of filing of Application :**26/04/2021

**Publication Date:** 28/05/2021 (54)

**Book Published:**

**Design of Intelligent Applications using Machine Learning and Deep Learning**

Techniques, Taylor and Francis, CRC Press, ISBN 9780367679798, 16 August 2021

**Minor Research Grants:**

- Received Minor Research Grant **Rs. 40,000** from University of Mumbai in A.Y. 2015-16 for Research Proposal “**A Clustering based approach for increased network lifetime for wireless sensor networks**”.
- Received Minor Research Grant **Rs. 25,000** from University of Mumbai in A.Y. 2018-19 for Research Proposal “**Protecting Healthcare Data during Integration using Ingenious Technique**”

**International Certification:**

<b>Title of Course</b>	<b>Conducted by</b>	<b>Grade /Percentage</b>
IT Security: Defense against the digital dark arts	<b>Google</b>	<b>93.94%</b>
Cybersecurity Roles, Processes & Operating System Security	<b>IBM</b>	<b>90.64%</b>
Cybersecurity Awareness and Innovation	<b>Eit Digital</b>	<b>98.49%</b>
Cyber Threats and Attack Vectors	<b>University of</b>	<b>100%</b>

	<b>Colorado System</b>	
Information Security: Context and Introduction	<b>University of London.</b>	<b>94.01%</b>
Blockchain and Cryptocurrency Explained	<b>University of Michigan</b>	<b>97%</b>
Machine Learning for All	<b>University of London</b>	<b>96%</b>
Python Programming Essentials	<b>RICE University</b>	<b>82%</b>
Assessment in Higher Education: Professional Development for Teachers	<b>Erasmus University Rotterdam</b>	<b>94%</b>
Learning to Teach Online	<b>UNSW Sydney (The University of New South Wales)</b>	<b>72%</b>
Python Certificate Professional	<b>Star Certification.</b>	<b>-</b>
ICSI   CNSS Certified Network Security Specialist	<b>International Cyber Security Institute, London</b>	<b>-</b>

### **Responsibility at University of Mumbai /Other University.**

- Appointed as **PhD Defence Referee** by Sant Gadge baba Amravati University, Amravati, July 2021.
- Appointed as **PhD Defence Referee** by Rashtrasant Tukadoji Maharaj Nagpur University in Feb 2020.
- Appointed as M.E/ M.Tech. Project Exam Referee by Shri Sant Gadge baba Amravati University in A.Y 2014-2015 ,15-16, 16-17,17-18,18-19,19-20
- Appointed as a **Board of Study Member, Computer Engg.** by Vice Chancellor of Mumbai University in A.Y 2014-2015 ,15-16, 16-17,17-18,18-19.
- Appointed as a **Result Moderation Committee Member, Computer /IT Engg.** by Vice Chancellor of MU in A.Y 2010-2011 to till date.
- Appointed as a **Local Enquiry Committee Member** for PhD Research Centre /UG/PG courses, University of Mumbai in .A.Y 2015-2016,16-17, 17-18,18-19.
- Appointed as a **Judge for state level project competition “ Avishkar “** in A.Y 2015-16, 16-17, 17-18 ,organized by University of Mumbai.
- Appointed as a subject expert for conducting USSC Interview at various Engineering College by University of Mumbai.
- Invited by University of Mumbai to conduct orientation program for First Year Engineering subject “Structured Programming Approach “at VIT, Mumbai.

## **Responsibilities and Event organized at Institute Level.**

- **Organized AICTE-ISTE approved Five days STTP on smart Computing, 12 July -16 July , 2021.**
- **Conduction PhD Course work in Academic year 2020-2021.**
- Working as a **Conference Chair & Proceeding Editor** of **Second International Conference ICACTA 2020 on theme “Intelligent Computing”**, selected paper will be published with **Springer in Algorithms for Intelligent Computing. [ISSN : 2524-7565]**.
- Worked as a **Conference Co-Chair & Editor for First International Conference ICACTA 2015**, all selected paper are published in **Science Direct, Procedia of Computer Science.**
- **Organized Workshop for SVKM Non Teaching staff** on title “ Effective Use of IT and Security Services During Covid 19” on 2<sup>nd</sup> June 2020.
- **Organized 2 Days FDP on title “ Advanced Computing and Communication Technologies for Industry 4.0”** on 12<sup>th</sup> -13<sup>th</sup> June 2020.
- Organized Faculty Development Program (FDP) in association with TCS on **“Lateral Thinking”** on 12 Feb. 2019.
- Working as a **Computer Research Centre Head** from A.Y. 2014-15 to till date.
- Working as **Graduate Research Assessment Committee (RAS) member** from A.Y 2015-16 to till date.
- Organized Faculty Development Program (FDP) on **“Intellectual Property Rights”** on 4<sup>th</sup> & 5<sup>th</sup> Jan 2019.
- Organized **AICT-ISTE approved one week STTP on “Insights of Machine Learning & Deep Learning** “from 2 July 2018 to 6 July 2018.
- Organized Faculty Development Program (FDP) on **“Research Area in Internet of Things”** on 14<sup>th</sup> & 15<sup>th</sup> July. 2017.
- Organized **ISTE approved one week STTP on “Practical Insights to Cloud Computing”** from 4<sup>th</sup> Jan 2016- 9<sup>th</sup> Jan 2016.

- Organized Faculty Development Program (**FDP**) in association with **TCS** on “**Big Data Analysis**” on 15<sup>th</sup> & 16<sup>th</sup> Dec. 2014.
- Organized **State Level Project Competition “DJ ASCII”** in A.Y 2016-17 to 18-19.
- Organized State Level Hackthon “**Line of Codes**” in A.Y 2018-19.
- Appointed as **Co-Chairperson** for F.E Admission in A.Y 2017-18, 18-19.
- Working as a **Sport Chairman** at Institute Level from A.Y 2010-11 to till date.
- Working as a **Chief Conductor for University Examination** from May –June 2018 to till date.
- Organized Orientation program on “Structure Programming Approach” at D. J. Sanghvi College of Engineering.
- Organized one day orientation program in association with University of Mumbai on “**Cloud Computing Lab**” B.E (Sem VIII) at DJSCE
- Appointed as **Session Chair at ICCT 2015** , Organized by EXTC , DJSCE.
- Taken initiative to start **consultancy work** in Computer Engineering Department..
- Appointed as a **Software/Hardware in charge** of F.E/S.E admission in year 2013.
- Worked as **Hardware in charge** for F.E/S.E admission from 2009-2012.
- Working as a **ACM Convener** since Year 2012
- Worked as a **ACM coordinator** in year 2011.
- Worked as a **Project Coordinator** Year 2010-2011.
- Worked as a **F.E. Coordinator (CP-I/CP-II)**
- **Organized orientation program** for M.E teacher in Cyber Security.
- **Conduct Workshop** for NMIMS Law Student.
- **Organized 2 days workshop for staffs and students** on Ethical Hacking , Anroid OS, Computer Forensics, Network Design, Cloud Computing, Network Security, PC Assembling, Higher Education opporchinuties, Web Engineering,NS2.
- **Deliver and Organized seminars for students** on DSF/DSA ,Adv. Java, Basic of C/C++ for Interview preparation
- Successfully conducted System security Track during syllabus revision meeting of Mumbai University organized by DJS COE Comp. Dept.
- Successfully conduct one Technical Track during NCICT 2006.

## **Responsibilities at other Institute Level.**

- Appointed as **Dept. Advisory Board member** (DAB) of IT Department, NMIMS MPSTME, A.Y 2018-19, 2019-20,20-21.
- Appointed as Dept. **Advisory Board member** (DAB) of Computer Engg. Dept., Fr. CRCE, Bandra (W), A.Y 2018-19, 2019-20,20-21
- Appointed as Dept. **Advisory Board member** (DAB) of Computer Engg. Dept., at Fr. CRCE, Bandra (W), A.Y 2018-19, 2019-20,2021
- Appointed as a Dept. **Advisory Board** (DAB) Information Technology , K.J. Somaiya , Institute of Technology , Sion, A.Y 2017-18,2018-19, 2019-20,20-21
- Appointed as **Academic Auditor** of Computer Engg. Dept., RAIT, A.Y 2018-19, 2019-20.
- Appointed as **Academic Auditor** of Computer Engg. Dept., FCRIT,Vashi, A.Y 2018-19, 2019-20
- Appointed as a **Panel member for conducting Interview for Ph.D. in Engineering**, TCET, Mumbai, 15 March 2019.
- Appointed as **Expert for Dept. Audit** (Computer Engineering) , Fr. C. Rodrigues Institute of Technology, Vashi , Navi Mumbai , 2<sup>nd</sup> Jan 2019.
- Appointed as Expert **for Dept. Audit** (Computer Engineering), Fr. CRCE, Bandra (W) , 2018.
- Appointed as a **Panel member for conducting Interview for Ph.D. in Engineering**, NMIMS University.
- Appointed on **Advisory Committee** on ISTE approved STTP on topics “Ethical Hacking and IT Security”, VIVA Institute of Technology.
- **Invited as a Judge** of the National Level Technical Paper Presentation Competition, AVALON-2017.
- Invited as a **chief judge** for technical paper presentation by CSI-SSJCOE students’ chapter at S.S. Jondhale COE, 22<sup>nd</sup> March 2016

## **Interaction with Professional Institute**

- **Deliver expert talk on title** “Cyber Security Technology and Research Trends” during **ISTE approved one week STTP** organized by Vidyavardhini College of Engineering, on 23<sup>rd</sup> June 2021.
- **Delivered expert talk on title** “ Cyber Threats and Mitigation “ , **during Webinar** organized by IETE Students Chapter, Terna College of Engineering , Nerul, Mumbai, 23<sup>rd</sup> March 2021.
- **Delivered expert talk on title** “ Security Threats Cyber Threats and Mitigation in Smart Computing “ , **during ISTE approved One Week FDP** organized by Xavier Institute of Technology , Mumbai, 4<sup>th</sup> January 2021.
- **Delivered expert talk on title** “ Cyber Security Threats and Mitigation Techniques“ VPM Maharshi Parshuram College of Engg., Velneshwar. 5<sup>th</sup> Nov 2020.
- **Deliver expert talk on title** “Machine Learning in Cyber Security” during **ISTE approved one week STTP** organized by Vidyavardhini College of Engineering, on 25<sup>th</sup> June 2020.
- **Deliver talk on title** “Cyber Security Threats” SE/TE students of Terna College of Engg. On 30<sup>th</sup> April 2020.
- **Deliver expert talk on** “Recent Trends in Wireless Network” during **ISTE approved one week STTP** organized by EXTC Dept., on 3<sup>rd</sup> January 2019.
- Invited as a **Judge for Project Competition** “Vivek Technotronix” organized by VES Polytechnics, Mumbai, 2<sup>nd</sup> March 2019.
- **Deliver expert talk on** “Cyber Security and Ethical Hacking ” during DTE Sponsored **one-week STTP** organized by Government Polytechnic , Malvan, on 20<sup>th</sup> March 2019.
- **Deliver expert talk on** “System Security” at Terna College of Engineering , 11<sup>th</sup> Oct 2018.
- **Deliver expert talk on** “Security issues in smart cities” during **ISTE approved STTP** organized by Universal College of Engineering, Kaman, Vasai(E) on 21<sup>st</sup> June 2017.
- Appointed as PG project review committee members, May 2017.



- **Deliver talk** on topics “cyber security” at VIVA Institute of Technology , Mumbai.
- Conducted expert lecture on Network Security at Tasgaonkar College, Karjat.
- Delivered an expert lecture on Network Design and Management at Tasgaonkar College of Engg.
- Delivered an expert lecture on High Speed Network at SNTD, Mumbai.
  - Taught various subject at the **IIS program** run in collaboration with Kingston University, UK.,

### **Session Chair / Reviewer of International Conference**

- **Appointed as a reviewer of High quality peer review IEEE Access Journal.**
- **Appointed as Technical Chair, IEEE 6<sup>th</sup> International Conference, Organized by Imperial College, London UK.**
- Appointed as Reviewer of 2<sup>nd</sup> IEEE International Conference, ICAC3-19 Organized by Fr. Agnel College of Engg., Mumbai.
- Appointed as a Paper Review committee member at 2<sup>nd</sup> International Conference (**ICAST-2019**), Organized by KJSIT, Mumbai.
- Invited as a Session Chair at IEEE International Conference (**ICEECCoT-18**), Organized by GISSSIETW, Mysore.
- Appointed as a review committee member for 2<sup>nd</sup> IEEE International Conference **GCWCN-2018**, SIT Lonavala.
- Invited as a Session Chair at IEEE International Conference (**ICAC3-17**), Organized by Fr. Agnel College of Engg. , Mumbai.
- Invited as a Session Chair at IEEE International Conference (**ICEECCoT-17**), Organized by GISSSIETW, Mysore.
- Appointed as a review committee member IEEE International Conference **ICEECCoT-17, ICAC3-17.**
- Invited as a Session Chair at 3<sup>rd</sup> IEEE International Conference (**ICCUBEA-2017**), Organized by PCCoE, Pune.
- Appointed as a **session chair for cPGCON2017** to evaluate PG projects by Pune University, 25 March 2017.

- Appointed as a Paper Review committee member at 3<sup>rd</sup> Springer International Conference (**IWiCOM-2017**), Organized by DJSCE, Mumbai.
- Appointed as a Paper Review committee member at IEEE International Conference (**ICAC3**), Organized by Fr. Conceicao Rodrigues College of Engineering, Mumbai.
- Appointed as a Paper Review committee member at 3<sup>rd</sup> IEEE International Conference (**ICCUBEA-2017**), Organized by PCCoE, Pune.
- Appointed as a Paper Review committee member at 1<sup>st</sup> International Conference (**ICSCET-2017**), Organized by Universal College of Engineering, Vasai, Mumbai.
- Appointed as a Paper Review committee member at International Conference (**RACEM-2016**), Organized by Vidyalankar Institute of Technology, Mumbai.
- **Appointed as a Journal Paper Review Committee member** of DBJSE Journal, Don Boaco Institute of Technology, Mumbai.
- **Invited as a Session Chair** for 8<sup>th</sup> International Conference & Workshop ‘MULTICON- W-2017’, organized TCET, Mumbai.

### **International Journal Publication with Scopus Index (11)**

- Published a paper on title “A Secured Model to Protect Healthcare IoT System from Version Number and Rank Attack “ Journal of University of Shanghai for Science and Technology(JUSST), Volume 23,issue 7, 2021, ISSN : 1007-6735, **DOI: 10.51201//21/07162 , Scopus Index**
- Published a paper on title “Performance Analysis of Machine Learning Algorithm used for Web base Phishing Detection “ Journal of University of Shanghai for Science and Technology(JUSST), Volume 23, issue 5, 2021, ISSN : 1007-6735, **DOI: 10.51201/JUSST/21/05-187 , Scopus Index**
- Published a paper on title “Phishing Website Detection” ,International Journal of Engineering and Technology, Volume 8, issue4, April 2021, e-ISSN: 2395-0055,p-ISSN 2395-0072.
- Published a paper on title “Cross Domain Adaptation using A Novel Convolution Neural Network” International Journal of Engineering Research and Technology, Volume 13, Number 9 (2020), pp. 2230-2238, September 2020, ISSN: 0974-3154, **DOI: 10.37624/IJERT/13.9.2020.2230-2238 , Scopus Index**
- Published a paper on title “PUF Based Authentication for Secure Data Transfer In Smart Grid” International Journal of Advance Science and Technology Vol. 29, No. 10S, (2020), pp. 7897-7907, **Scopus Index**.

- Published a paper on title “Privacy Preserving Record Linkage Using Phonetic and Bloom Filter Encoding “,” International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 11, Issue 7, July 2020, pp.350-362.  
**DOI : 10.34218/IJARET.11.7.2020.035, Scopus Index.**
- Published a paper on title, “Preventing Cryptographic Attacks in Iot using Lightweight P-Box Permutation Encryption” , International Journal of Innovative Technology and Exploring Engineering (IJITEE), 2020, **DOI: 10.35940/ijitee.F4128.049620, Scopus Index.**
- Published a paper on title, “MITM Attack Prevention Using PUF authentication in Smart Grid”, International Journal of Advanced Science and Technology(IJAST), International Journal of Advanced Science and Technology Vol. 29, No. 03, (2020), pp. 12321 – 12331, **Scopus Index.**
- Published a paper on title, “Machine Learning Based Risk-Adaptive Access Control System to Identify Genuineness of the Requester.” Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough. Studies in Computational Intelligence, vol 885. Springer, Cham. **DOI: [https://doi.org/10.1007/978-3-030-38445-6\\_10](https://doi.org/10.1007/978-3-030-38445-6_10) , Scopus Index.**
- Published a paper on title,” Design of Machine Learning and Rule Based Access Control System with Respect to Adaptability and Genuineness of the Requester”, EAI endorsed Transactions on Pervasive Health and Technology, Issue 23, sep 2020, **DOI : 10.4108/eai.24-9-2020.166359 , Scopus Index.**
- Published a paper on title “Dynamic Access Control in a Document Data Store.”, International Journal in Advance Research in Computer Science and Software Engineering (IJARCSSE), Vol 7, Issue 5, May 2017, ISSN: 2277 128X, pp: 518-522. **DOI:10.23956/ijarcsse/V7I5/01.**

### **Book Chapter Publication : (7)**

- Published Book Chapter on title,” Fundamental Models in Machine Learning and Deep Learning”, Design of Intelligent Applications using Machine Learning and Deep Learning Techniques, Taylor and Francis , CRC Press, ISBN 9780367679798, 16 August 2021
- Published Book Chapter on title “ Application of Machine Learning and Deep Learning in Thyroid Disease Prediction”, Taylor and Francis , CRC Press, **ISBN 9780367679798**, 16 August 2021
- Published Book Chapter on title “ Evaluation of Intrusion Detection System with Rule-Based Technique to Detect Malicious Web Spiders Using Machine Learning”, Taylor and Francis , CRC Press, **ISBN 9780367679798**, 16 August 2021
- Published Book Chapter on title “Training Agents to Play 2D Games Using Reinforcement Learning”, Taylor and Francis , CRC Press, **ISBN 9780367679798**, 16 August 2021
- Published Book Chapter on title,” Lightweight Secure Technology Future of Internet of Things”, Internet of Things, Smart Computing and Technology: A Roadmap Ahead, **DOI: 10.1007/978-3-030-39047-1\_14, Scopus Index.**

- Published Book Chapter on title, ” Towards smart and Secure IoT based healthcare system”, Internet of Things, Smart Computing and Technology: A Roadmap Ahead, **DOI: 10.1007/978-3-030-39047-1\_14, Scopus Index.**
- Published a paper on title “Dynamic Access Control in a Document Data Store.”, International Journal in Advance Research in Computer Science and Software Engineering (IJARCSSE), Vol 7, Issue 5, May 2017, ISSN: 2277 128X, pp: 518-522., **ISSN: 2277 128X DOI:10.23956/ijarcsse/V7I5/01.**

### **Paper Published at International Conferences (59 Papers)**

- Published a paper on title “Impact Analysis of RPL Attack on 6LoWPAN base Internet of Things Network” 7<sup>th</sup> International **IEEE** Conference on Electronics, Computing and Communication Technologies 2021 (IEEE Connect 21), IEEE Section Bangalore, 9-11 July 2021..
- Published paper on title “ SMSPPRL: A Similarity Matching Strategy for Privacy Preserving Record Linkage”, Sixth **IEEE** International Conference on Parallel, Distributed and Grid Computing(PDGC), 6-8 Nov 2020.
- Published paper on title “ ResQ - Smart Safety Band Automated heart rate and fall monitoring system”, Fourth IEEE International Conference on I-SMAC, Palladam, India 7-9 Oct. 2020, **DOI: 10.1109/I-SMAC49090.2020.9243548, Scopus Index.**
- Published paper on title “ An innovative approach towards shopping using Deep Learning and Computer Vision”, 2020 Third IEEE International Conference on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, India, 20-22 Aug. 2020, **DOI: 10.1109/ICSSIT48917.2020.9214256 , Scopus Index.**
- Published paper on title “ Design and implementation of a human following smart cart ”, 2020 Third IEEE International Conference on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, India, 20-22 Aug. 2020, **DOI: 10.1109/ICSSIT48917.2020.9214217 , Scopus Index.**
- Published paper on title “Critical and Comparative analysis of DoS and Version number attack in healthcare IoT”, **Springer**, DSNCR -2020, 2 May 2020, Proceedings of DSNCR -2020 will published in Lecture Notes in Networks and Systems **ISSN: 2367-3370(In press), Scopus Index.**
- Published paper on title “ EYERIS: A Virtual Eye to Aid the Visually Impaired “, 2020 3rd IEEE International Conference on Communication System, Computing and IT Applications (CSCITA) ,,Mumbai, India, 3-4 April. 2020, **DOI: 10.1109/CSCITA47329.2020.9137777 , Scopus Index.**
- Published paper on title “ An Enhanced Approach for Privacy Preserving Record Linkage during Data Integration”, 6th IEEE International Conference on Information Management (ICIM), 27-29 March 2020, London, **DOI : 10.1109/ICIM49319.2020.244689, Scopus Index.**
- Published paper on title “Lightweight Random Number Generation for Elliptic Curve Cryptography for Use in IoT”, **Springer**, Advanced Computing Technologies and Applications, (ICACTA 2020),Mumbai India,28-29 Feb.2020, **DOI: 10.1007/978-981-15-3242-9\_7**

- Published paper on title “Improvement of Lightweight Integrity Verification Algorithm using TDHA”, **Springer**,Advanced Computing Technologies and Applications, (ICACTA 2020),Mumbai India, 28-29 Feb.2020, **DOI: 10.1007/978-981-15-3242-9\_8**.
- Published paper on title “Improving security of IoT network using machine learning based intrusion detection system”, **Springer**,Advanced Computing Technologies and Applications, (ICACTA 2020), Mumbai India, 28-29 Feb.2020, **DOI: 10.1007/978-981-15-3242-9**
- Published paper on title “A Brief Survey of Sentiment Analysis”, **Springer**, Advanced Computing Technologies and Applications, (ICACTA 2020),Mumbai India, 28-29 Feb.2020, **DOI: 10.1007/978-981-15-3242-9\_34**
- Published a paper on title “Preprocessing HTTP Requests and Dimension Reduction Technique for SQLI Detection” ICDLAIR 2019, MNIT Jaipur GOA, 7<sup>th</sup> -8<sup>st</sup> December 2019 .
- Published a paper on title “Machine Learning Based Risk-Adaptive Access Control System to identify Genuineness of the Requester” ICCCMMLA, GOA, 16<sup>th</sup> -17<sup>st</sup> August 2019, **DOI : 10.1007/978-981-15-1632-0,Scopus Index**.
- Presented a paper on title “ A Review and Future Vision on Bloom Filter based Encoding for secured Data Integration” IEEE International Conference on Electrical, Communication, Electronics, Instrumentation and Computing-ICECEIC 2019,Tamil Nadu, 30<sup>th</sup> -31<sup>st</sup> January 2019.
- Presented a paper on title “The SQL Injection Vulnerability Analysis on India Co-operative Banking and Government Website” IEEE International Conference on Electrical, Communication, Electronics, Instrumentation and Computing-ICECEIC 2019, Tamil Nadu, 30<sup>th</sup> -31<sup>st</sup> January2019.
- Presented a paper on title “Lightweight Cipher Using GRP Bit permutation and Tweak” 18<sup>th</sup> IEEE International Conference on Intelligent System Design and Application – ISDA 2018, 5 Dec 2018, VIT University Vellore, India, **DOI: 10.1007/978-3-030-16657-1\_98, Scopus Index**.
- Presented a paper on title,” Fuzzy Inference to Rule Based Risk Calculation for Risk Adaptive Access Control” India Com 2018 (**IEEE Conference**), 14- 16<sup>th</sup> March 2018 .
- Published a paper on title “Enhancements in Key Scheduling of AES Algorithm “IEEE International Conference on Electronics, Computer, Communication, Mechanical and Computing (EECCMC-2018) , Vellore , Tamil Nadu , January 28-29, 2018.
- Published a paper on title “Analysis of Cross Domain Sentiment Techniques“IEEE International Conference on Electrical, Electronics, Communication, Computer Technology and Optimization Techniques (ICEECCOT-2017) , Mysuru,, December 15-16, 2017, **DOI :10.1109/ICEECCOT.2017.8284637, Scopus Index**.
- Published a paper on title “ A Survey of Privacy Preserving Data Integration “, IEEE International Conference on Electrical ,Electronics, Communication, Computer Technology and Optimization Techniques (ICEECCOT-2017) , Mysuru,, December 15-16, 2017,DOI : 10.1109/ICEECCOT.2017.8284559, **Scopus Index**.

- Published a paper on title “ Security approach on MQTT based Smart Home “ IEEE International Conference on Power, Controls, Signals & Instrumentation Engineering ( ICPCSI-2017) , Chennai,. September 21-22, 2017, DOI: **10.1109/ICPCSI.2017.8391883, Scopus Index.**
- Published Paper on title, “Lightweight secure RPL: a need in IoT”,International Conference on Information Technology (ICIT), 214-219, IEEE, 2017 **DOI: 10.1109/ICIT.2017.31 , Scopus Index.**
- Published a paper on title “ Model to analyze social media data to gain a competitive edge” 3<sup>rd</sup> IEEE International Conference on Computing , Communication, Control and Automation ( ICCUBEA-2017) , August 17-18, 2017.
- Published a paper on title “ Application for selecting dynamic optimum path parameter in routine network using school bus routing problem “” 3<sup>rd</sup> IEEE International Conference on Computing , Communication, Control and Automation ( ICCUBEA-2017) , August 17-18, 2017.
- Published a paper on title “Cued Click Authentication “ 14 IEEE International Conference on Wireless and Optical Communication Networks ( WOCN 2017) ,24-25 February , 2017, Mumbai , DOI: **10.1109/WOCN.2017.8065845, Scopus Index.**
- Published a paper on title, "A Polyglot Persistence approach for E-Commerce business model," 2016 IEEE, International Conference on Information Science (ICIS), Kochi, 2016, pp. 7-11. **DOI: 10.1109/INFOSCI.2016.7845291, Scopus Index.**
- Published a paper on title, "A novel polyglot data mapper for an E-Commerce business model," 2016 IEEE Conference on e-Learning, e-Management and e-Services (IC3e), Langkawi, 2016, pp. 40-45, **DOI : 10.1109/IC3e.2016.8009037, Scopus Index.**
- Published a paper on title “ A Novel K-Means L-Layer Algorithm for Uneven Clustering in WSN” in **IEEE International Conference** on Computer, Control, and Signal Processing (ICCCSP), SSN College of Engg., Kalavakkam, Chennai, 10<sup>th</sup> -11<sup>th</sup> January 2017.
- Published a paper on title “ A Solution to detect Phishing in Android Devices." **Springer International Conference** on Information Systems Security (ICISS-2016), NIT Jaipur, December 2016.
- Published paper on title “ A rule Based Intrusion Detection System to Identify Vindictive Web Spider”, **IEEE International Conference** ( CAST-2016), College of Engineering, Pune, December 19-21, 2016.
- Published a paper on title “3D Socio Graphical CAPTCHA Based on reCAPTCHA Against Spammers and Bots” , **IEEE International Conference** on Advances in Electronics , Communication and Computer Technology (ICAECCT-2016) ,RSCE, Pune , 2 and 3 , December 2016.
- Published a paper on title “ Trustworthiness Evaluation System in E-commerce Context “ , 2<sup>nd</sup> **IEEE International Conference** on Computing, Communication, Control and Automation ( ICCUBEA2016), PCCOE, Pune, 12<sup>th</sup> and 13<sup>th</sup> August, 2016.

- Published a paper on title “ Intelligent Tutoring System for learning English Punctuation “, **2<sup>nd</sup> IEEE International Conference** on Computing, Communication, Control and Automation ( ICCUBEA2016), PCCOE, Pune, 12<sup>th</sup> and 13<sup>th</sup> August, 2016.
- Published a paper on title “ A polyglot Persistence Approach for E-Commerce Business Model”, **IEEE International Conference** on Information Science (ICIS- 2016), College of Engineering Cherthala, Kerala, August, 2016.
- Published a paper on title “ Cloud Computing Security in Multi-clouds using Shamir Secret Sharing Scheme”, **IEEE International Conference** on Electrical ,Electronics and optimization Technique (ICEEOT) DMJ COE, Chennai, Tamil Nadu, 3 to 5<sup>th</sup> March 2016.
- Published a paper on title “Security Protocol for Wireless Sensor Network to prevent Node cloning Attack”, **IEEE sponsored 3<sup>rd</sup> International Conference** on Electronics and Communication Systems at Karpagam COE, Coimbatore, India , 25<sup>th</sup> and 26<sup>th</sup> Feb 2016
- Published a paper on title “Prevention of Session Hijacking Attack using Enhanced Session Binding Techniques”, **IEEE sponsored 3<sup>rd</sup> International Conference** on Electronics and Communication Systems at Karpagam COE, Coimbatore, India , 25<sup>th</sup> and 26<sup>th</sup> Feb 2016
- Published a paper on title “Security Against Sybil Attack in Social Network”, 5<sup>th</sup> **IEEE International Conference** on Information, Communication and Embedded Systems (ICICES 2016), India , 25<sup>th</sup> and 26<sup>th</sup> Feb 2016
- Published a paper on title “A novel approach to improve network life time in WSN by energy efficient package optimization”, **IEEE International Conference** on Engineering and Technology organized by Rathinam Technical Campus, Coimbatore, Tamilnadu, 17<sup>th</sup> and 18<sup>th</sup> March 2016  
**“ Above paper has received a Best Paper award in the conference.”**
- Published a paper on title “Remote password authentication scheme for distributed system using smart card”, **IEEE International Conference** on Engineering and Technology organized by Rathinam Technical Campus, Coimbatore, Tamilnadu, 17<sup>th</sup> and 18<sup>th</sup> March 2016.
- Published a paper on title “ Metamorphics Virus Detection Using Uniform Characteristics”, International Conference on Recent Trends in Computer and Electronics Engineering. , Organized by SAKP ,Mumbai, January 23<sup>rd</sup> 2016.
- Published a paper on title “At a glance of Sybil detection in OSN”, **1<sup>st</sup> IEEE International Symposium on Nanoelectronic and Information System (IEEE-iNIS)** Organized by **IEEE-iNIS** , December 23<sup>rd</sup> 2015
- Published a paper on title “ Performance Evaluation of OLSR Protocol in MANET under The Influence of Routing Attack ” in **IEEE Conference** Organized by SIT, Lonavala.

- Published a paper on title “ Insider Threats Detection Using Log Analysis and Event Correlation “in ICACTA 2015 (**ELSEVIER** ) Conference Organized by DJSCE, Mumbai.
- Published a paper on title “ Twitteri Identification System “ in ICACTA 2015 (**ELSEVIER** ) Conference Organized by DJSCE, Mumbai.
- Published a paper on title “ An Enhance Authentication Mechanism to Secure Re-programming in WSN ” in ICACTA 2015 (**ELSEVIER** ) Conference Organized by DJSCE, Mumbai.
- Published a paper on title “ Implementation of Pattern matching Algorithm to Defend SQLIA ” in ICACTA 2015 (**ELSEVIER** ) Conference Organized by DJSCE, Mumbai.
- Published a paper on title “ Implementation of Fuzzy Keyword Search Over Encrypted Data in Cloud Computing ” in ICACTA 2015 (**ELSEVIER** ) Conference Organized by DJSCE, Mumbai.
- Published a paper on title “ Conservation of Energy in Wireless Sensor Node through Prevention of Denial of Sleep Attack ” in ICACTA 2015 (**ELSEVIER** ) Conference Organized by DJSCE, Mumbai.
- Published a paper on title ““Analysis and Prevention of various DoS attack on P2P”,International Conference ICETS 2014, Tamilnadu , India
- Published and presented a paper on “A survey : Anomaly Intrusion Detection System” International Conference – ICETTA – 2014, Mumbai,India
- Analysis of various attacks and prevention of DOS attack in P2PSIP”, International Conference – ICETS 2014 Muthayammal College of Engg, Tamil Nadu.
- Published a paper on title ““Lightweight authentication protocol used in wireless sensor network”, **IEEE CSCTTA 2014, Mumbai, Published in IEEE explorer digital library.**
- Published and presented paper on “ Anomaly detection in VoIP system using Neural Network and Fuzzy Logic “, CIIT 2011, **Published in Springer digital library**, volume 250 , part 2, pp 537-542.
- Published and presented paper on “ Security SIP using trusted third party system”, International Conference on Machine Learning (ICMLC- 2011), 26-28 Feb-11, Singapore, pp. 396-399.
- Published paper on title “Threats analysis in VoIP system”, 3<sup>rd</sup> International Conference on Computer and Electrical Engineering, (ICCEE-2010), Volume No. 6, PP 496-501, China.
- Published paper on topic “A virtual keyboard using shadow analysis” at 3<sup>rd</sup> International Conference on Emerging trends in Engineering and Technology, 2010, pp. 163-165 (**Online Available: IEEE computer science digital library**)
- Published and presented paper on topic “A Novel approach to avoid billing attack”, at International Conference, organized by WASET, 26-28, Feb. 2010, Malaysia, pp. 993-997.



## Journal Publication (17)

- Published a paper on “Bluetooth Based File Encryption System using Modified Key Exchange Algorithm”, IJIACS, Vol-5, Issue-1, January-2016, ISSN 2347-8616.
- Published a paper on “Security for Android Mobile Phones using Biometric Authentication against Factory Reset”, IJSR, Vol-4, Issue-12, December-2015, ISSN 2319-7064.
- Published a paper on “Metamorphic Virus Detection using Uniform Characteristic”, ICRTCEE, January-2016.
- Published paper on title “A Framework for Cyberbullying Detection in Social Network “ , IJCET ( ISSN : 2277-4106 ) , Vol 5, No.1, Feb. 2015.
- Published paper on title “Detection and Mitigation of Grayhole Attack in WSN using Trust Mechanism “ IJSR, Vol. 4, Issue 1, April. 2015.
- Published paper on title “VILEER: Detection of Drive by Download attack on Malicious Web Pages”, IJSR, Vol.4, Issue 4, April 2015.
  
- Published paper on title “End to End Encryption Architecture for Voice over Internet protocol”, International Journal of Computer Application (IJCA), ISBN 0975-8887
- Published paper on title “Security for Anroid Mobile Phone using Biometric Authentication against Factory Reset” IJSR, Vol . No. 4 , Issue 12 , December 2015, ISSN: 2319-7064.
- Published paper on title “Data Mining techniques for Real Time Intrusion Detection Systems”, IJSER, ISSN 2229 – 5518
- Published paper on title “Design of Secured Server Administration”, ISSN 2229-662, March 2011
- Published paper on title “Detection and Prevention Mechanism on Call Hijacking in VOIP System”, IJCA, Volume 90, Issue 6, ISBN : 973-93-80880-76-7.
- Published paper on title “Analysis of various attacks and prevention of DOS attack in P2PSIP” IJIRSET , ISSN : 2319 -8753
- Published paper on title “Study of DSR and AODV under Sinkhole Attack and its Proposed Prevention Technique “ IJERA, Volume 4, Issue 3, ISSN: 2248-9622 .
- Published paper on title “A Novel Authentication method in Wireless Sensor Method”, IJERA, Volume 5, Issue 3, ISSN: 2248-9622
- Published paper on title “Identification and Defense Mechanisms for XSS attack “ , IJERT, Vol.3 , Issue 1, ISSN:2778-0161.
- Published paper on title “Brisk and Secure Ad-Hoc Vehicular Communication “ IJRET, Volume 03, Issue 03, eISSN: 2319-1163.
- Published paper on title “The countering the XdoS attack for securing the web services” International Journal of Computer Science

### **Paper Published at National Conferences (7)**

- Presented paper on topic “Wireless Network Security” at National Conference, NCICT-06, Mumbai.
- Presented paper on topic “Motion Detection System” at National Conference, NCICT-06, Mumbai.
- Presented paper on topic “Face recognition using eigen face and fisher face technique” at National Conference JNEC, Aurangabad, 2006.
- Presented paper on topic “Analysis of denial of service attack” at National Conference PCCE, verna, goa, 2006.
- Presented paper on topic “Steganography and Cryptography” at National Conference, NCICT-07, Mumbai.
- Published and presented paper on title “Availability threats analysis in VoIP system”, NCCT-2011, DJSCE, Mumbai.
- Published and presented paper on title “An Ideal approach to present attack on Ad hoc Network”, NCCT-2011, DJSCE, Mumbai.

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