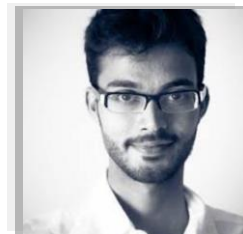


PRATHAMESH CHURI (SMIEEE, LMCSI, LMISTE, MACM, LMIAENG)

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TEACHER | WRITER | RESEARCHER | COUNSELLOR



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Prathamesh_Churi

PROFILE SUMMARY

- Ph.D. Research Scholar in Data Privacy in Healthcare in Computer Science. Education Technology researcher with a focus on lifelong learning, e-learning, and Outcome-based education.
- Senior Member of IEEE, membership honored based upon extensive experience and reflected professional maturity and documented achievements of significance.
- Young, dynamic, and passionate professor and researcher in the engineering field. Holds, master's degree in Information Technology (IT). Seeking a challenging and rewarding position as a researcher and academic mentor in an esteemed organization.
- Outstanding technical knowledge, excellent listener, and organizer of information for quick retrieval and disbursement to groups and individuals. Exceptionally proficient in dealing with multiple responsibilities and prioritizing time for the most urgent and important tasks.
- Committed and resolute in doing things right within the desired time and self-starter with independent judgment.
- Calm under pressure and the ability to stay task-focused. Strong and resilient when dealing with deadlines and distractions, with a "knuckle down" attitude toward getting the job done right the first time.
- Highly developed interpersonal communication skills; able to successfully interact with people from diverse backgrounds.

EDUCATION BACKGROUND

Ph.D. Research Scholar in Computer Science and Engineering (2019-ongoing)

- **University** – Symbiosis International (Deemed University), Pune, India.
- **Ph.D. Topic** – Privacy-Preserving Data Publishing (PPDP) techniques in healthcare.
- **Achievements-**
 - *Delivered keynote speech on my Ph.D. topic in the 3rd International Conference on Advances in Computing and Data Sciences (ICACDS-2019), India.*
 - *Guest Editor, Research and Innovations in Data Protection and Privacy in Healthcare (RIDAPPH) - Q3 Scopus Indexed Journal of Computing and Information Technology.*
 - *2 Ph.D. work publications in Scopus indexed journals till now.*

Masters of Engineering (M.E.) in Information Technology (2014-2016)

- **University-** University of Mumbai
- **Institute** – Shah and Anchor Kutchhi Engineering College (SAKEC), Mumbai, India
- **Specialization** – Information and Network Security, Enterprise Security, Advanced Data Mining and Business Intelligence, Advance Software Architecture
- **CGPA** – 8.16/10.00 with 10.00/10.00 In Semester III and IV (Meritorious Student)
- **Achievements-**
 - **Best Research Paper Award** in National Multidisciplinary Conference on Commerce, Management and Technology, VCMT -2015 held in VSIT, Mumbai

- *Opportunity to present a paper in the First International Conference in Science and Technology (TICST) for M.E- Final Year project at Rajmangala University of Technology (RMUTT University), Thailand.*
- **Meritorious Student** with 10.00/10.00 CGPA in the final year of M.E.

Bachelors' of Engineering (B.E.) in Computer Engineering (2009-2013)

- **University** – University of Mumbai
- **Institute** – **Vidyalankar** Institute of Technology (VIT), Mumbai
- **Percentage** – 76 % (Distinction – Second Topper)
- **Responsibilities and Position** –
 - *Class Representative (CR) from 2009-2013*
 - *Member of Cultural Committee, Students' Council, VIT*
 - *Documentation Head of Technical Committee, Students' Council, VIT*
 - *Event Head – Fervor- Annual Technical Festival, Students' Council, VIT*
- **Achievements** –
 - *Meritorious Student: B.E (Computer Engineering) Batch of 2013.*

H.S.C. in General Sciences (2007-2009)

- **University/ Board** – Maharashtra State Board – Mumbai Division
- **Institute** – Tarapur Vidya Mandir, Palghar
- **Specialization** – Physics, Chemistry, Mathematics, Biology
- **Percentage** – 81.33 %

S.S.C. in General Sciences, Social Science and Language (2007)

- **University/ Board** – Maharashtra State Board – Mumbai Division
- **Institute** – Dr. S. D. Vartak Vidyalaya, Palghar
- **Percentage** – 88.33 %
- **Achievement**- School Topper (Secured 1st Rank)

TECHNICAL SKILLS

Software	Eclipse, Android Studio, Net beans, JDK, ARX Data anonymization tool
Operating System	Windows XP/vista/ 7/8/Linux (Ubuntu)/apple iOS/android
Languages	C, C++, JAVA, Android, Python
Web Technology	HTML, CSS and JavaScript
Database	Oracle8/9/10g, MySQL, Microsoft Server 8/9/10
Area of Interest	Data Privacy, Education Technology, Information Security & Cryptography.

ORGANISATIONAL EXPERIENCE

Assistant Professor – SVKM's NMIMS Mukesh Patel School of Technology Management and Engineering

Working as an Assistant Professor in the Department of Computer Engineering from July 2016. Currently Teaching to Bachelor and Master level Students at NMIMS-Deemed University.

Courses offered to teach: Programming Languages and Data Structure, Web Technology, System Security, Distributed Computing, E-Commerce, Android Programming, Computer Networks.

Feedback: Top 5% consistent feedback received from Department is - 6.1/7.0 (The academic year 2016-2018)

Roles and Responsibilities:

- *Departmental Timetable Committee Member (July 2016-June 2017)*
- *Domain Coordinator- Web and Programming Languages (July 2018- Current)*
- *FDP In-charge for the Department (July 2018- Current)*
- *Faculty Mentor – Network for the Open Web – Mozilla Club (July 2018- Current)*



- Faculty Mentor – MPSTME Student Councils' Editorial Board (2018-2020)
- ABET Criteria 6 (Faculty Development) Member (July 2018- Current)
- NIRF Core Team Member – 2019
- SPOC of MPSTME Website.
- Super-core mentor – MPSTME Students' Council

Lecturer - Vidyavardhini's college of Engineering and Technology [VCET] (Affiliated to University of Mumbai)

Worked as a Lecturer in the Department of Information Technology from July 2014- May 2016 (2 years).

Courses offered to teach: Programming Languages, Advanced Database Management System.

Roles and Responsibilities:

- Placement Coordinator (July 2014-June 2015)
- Class In-charge (January 2015- June 2015)
- Student Council Selection Committee Member (July 2014-June 2015)



POSITIONS HELD

National Positions

- **Controller of Examinations- 2015**, Maharashtra State Board of Technical Education (MSBTE), Mumbai Division, for conducting MS-CIT Exams.
- **Trainer**, Infosys Campus Connect Program (2017-2019), Infosys Limited, for teaching Python Programming Language.
- **Super core mentor**, Students' Council, NMIMS MPSTME – mentoring student's events and activities.
- **Faculty In-charge**, Editorial Board (2017- current), Students' Council, NMIMS MPSTME, for handling additional responsibility of mentor of the editorial board of MPSTME's Students' Council.
- **Faculty Mentor**, Network for the Open Web (N.O.W.), Mozilla Club (2017-2019), NMIMS MPSTME Chapter, for handling additional responsibility of mentor of Mozilla club of MPSTME
- **Board of Studies (BoS) Member**, Patkar-Varde Autonomous Institute (A Constituent of the University of Mumbai), to structure the curriculum of B.Sc and M.Sc in Information Technology Programs.

International Positions

1. **Associate Editor**, International Journal of Advances in Intelligent Informatics (IJAIN), Published by Informatics Department - UAD, UTM Big Data Centre - UTM, and ASCEE, Indonesia (Indexing- *Scopus Q4: Artificial Intelligence, Cite-Score- 1.14, SJR-0.243, SNIP-0.490*)
2. **Associate Editor**, International Journal of Innovative Teaching and Learning in Higher Education (IJITLHE), IGI Global, USA
3. **Editorial Board Member**, International Journal of Forensic Software Engineering (IJFSE)- Inderscience publishers, USA (Indexing- Cabell's Directory of Publishing Opportunities, Google Scholar)
4. **Editorial Review Member**, International Journal of Information Security and Privacy (IJISP), IGI-Global, USA (Indexing: Web of Science ESCI and SCOPUS, Cite-Score- 0.9, SJR-0.139, SNIP-0.403)
5. **Editorial Review Member**, International Journal of Smart Sensor Technologies and Applications (IJSSTA), IGI Global, USA
6. **Peer Reviewer**
 - **IEEE Transactions on Education**, Indexing: Scopus Q1 (Cite score – 5.5, SJR-0.877, SNIP- 2.264), SCI (Impact factor-1.855, Influence score-0.336)
 - **Springer International Journal of Educational Technology in Higher Education**, Indexing: Scopus (Cite score –5.6, SJR-1.066, SNIP- 2.895), SSCI (Impact factor-3.08)
 - **Springer Educational Technology Research and Development**, Indexing: Scopus (Cite score –5.5, SJR-

- 1.321, SNIP- 2.194), SSCI (Impact factor-2.303)
 - **Springer Education and Information Technologies**, Indexing: Scopus (Cite score –3.6, SJR-0.782, SNIP-1.527), SSCI
 - **Springer International Journal of Data Science and Analytics**, Indexing: Scopus (Cite score: 3.6), ESCI
 - **Eurasia Journal of Mathematics, Science and Technology Education**, Indexing: Scopus (Cite score: 3.01, Q2)
 - **Emerald Journal of Applied Research in Higher Education**, Indexing: Scopus (Cite score –1.2), Emerging Source Citation Indexed
 - **International Journal of Engineering Pedagogy** (Invited Peer reviewer), Indexing: Scopus Cite score: 1.5, SJR- 0.346, SNIP- 0.431
 - **Advances in Science, Technology and Engineering Systems**, Indexing: Scopus (Cite score –0.6, SJR- 0.14, SNIP- 2.895)
 - **Learning and Teaching in Higher Education: Gulf Perspectives**, Emerald publications, Indexing: Scopus, ESCI
 - **Journal of Engineering Science and Technology (JESTEC)**, Taylor’s University, Indexing: Scopus Q2 (SJR-0.24), ESCI
 - **Journal of Real-time Image Processing, Springer**, Indexing: Scopus (Cite score- 4.2 SJR – 0.445), SCI-E (Impact factor- 1.968)
 - **World Journal of Engineering**, Emerald, Indexing: Scopus (Cite score – 1.2), ESCI
 - **SN Computer Science**, Springer
7. **Program Committee Member**, The International Conference on Engineering, Technology and Education (TALE)
- **Tenure:** 2018-current
 - **Conference Locations:** NSW Wollongong, Australia (TALE 2018), Yogyakarta, Indonesia (TALE 2019), Takamatsu, Japan (TALE 2020)
 - **Conference Type** – Asia Pacific flagship Conference Organised by the IEEE Education Society
 - **Role and Responsibilities:** Appointing Reviewers, Review papers.
8. **International Advisory Board Member**, Scientific Innovation Research Group (SIRG), Egypt
- **Tenure:** 2019-Current
 - **Role and Responsibilities:** Mentoring International Students on research projects.
9. **Book Reviewer**, Network Security, and Cryptography by Tata McGraw-Hill Publications.
- **Book Name:** Network Security and Cryptography
 - **Author:** Atul Kahate
 - **ISBN:** 978-1259-02882
10. **Book Chapter Reviewer**, IGI Global Publishing, USA
- **Book Name:** Handbook of Research on Predictive Intelligence Using Big Data and the Internet of Things
 - **Chapter Name:** Big Data Model and Architecture for Learning Analytical Systems.
11. **Technical Program Committee Member** of International Conferences (IEEE, Springer, ACM)
- *International Conference on Computing, Communication and Security (ICCCS-2015, 2016, 2017, 2018, 2019), Mauritius.*
 - *3rd International Conference on Computing for sustainable global development (INDIACom-2016), New Delhi*
 - *8th IEEE International Conference on Engineering Education (ICEED-2016). Malaysia*
 - *8th International Conference on University Learning and Teaching (INCULT-2016), Thailand*
 - *IEEE International Conference on Advances in Computing and Data Sciences (ICACDS-2016, 2017, 2018, 2019, 2020), India*
 - *3rd Advanced Research in Material Sciences, Manufacturing, Mechanical, and Mechatronic Technology International Conference.*
 - *International Conference on Art, Business, Education and Social Science – ABESS -2017, Malaysia*
 - *3rd International Multidisciplinary Engineering Research Conference – MERCon 2017, Sri-Lanka*
 - *3rd International Conference on Education – ICOED 2017*
 - *3rd Advanced Research in material science, manufacturing mechanical and mechatronic engineering technology – AR4MET 2017*
 - *Springer International Conference on Advances in Computing and Data Sciences (ICACDS-2017, ICACDS 2018, ICACDS 2019), India*

- The 5th and 6th International Conference on System Modelling & Advancement in Research Trends (SMART), India
- 3rd international conference on information in business and technology management
- World of multidisciplinary research and application conference
- International conference on innovative computing and communication, India
- Information Technology Trends (ITT) 2019 and 2020, Dubai
- 5th IEEE International Conference on Computing, Communication and Security (ICCCS -2020)

INVITATIONS

International Level

- **Session Chairperson**, IEEE International Conference on Science and Technology (TICST-2017), Pathum Thani, Thailand, jointly organized by Rajmangala University of Technology (Thailand), National Pingtung University (Japan), and Islamic University (Indonesia).
- **Special Session Chairperson (session topic: Research Directions and Innovations in Engineering Education)**, IEEE 4th INDIACom- 2017, New Delhi, India
- **Conference Convener**, 4th Springer International Conference on Advances in Computing and Data Sciences (ICACDS -2020, University of Malta, Europe)
- **Conference Co-Convener**, 3rd International Conference on Advances in Computing and Data Sciences (ICACDS -2019), New Delhi, India
- **Session Chair**- 3rd International Conference on Advances in Computing and Data Sciences (ICACDS -2019), New Delhi, India
- **Session Chair**- 4th International Conference on Advances in Computing and Data Sciences (ICACDS -2020), Malta (Virtual due to COVID-19)
- **Session Chair**- Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO)-2020, Goa, India (Virtual due to COVID-19)
- **Session Chair**, Asia-Pacific's Flagship conference TALE 2020, hosted by IEEE Education Society, Japan (Virtual due to COVID-19).
- **Session Chair**, International conference on IoT-SIAC, Thakur College of Engineering and Technology, Mumbai, India (Virtual due to COVID-19).
- **Session Chair**- 5th International Conference on Advances in Computing and Data Sciences (ICACDS -2020), Nashik, Maharashtra (Virtual due to COVID-19)

HONORS AND AWARDS

International Level

- **Best Reviewer Award** from Asia-Pacific's Flagship conference TALE 2020, IEEE Education Society.
- **Appreciation letter for excellency in review process** from Conference Chair of IEEE MERCon – 2017, University of Moratuwa, Sri-Lanka
- **Appreciation letter** from Conference Chair of IEEE TALE -2018-2020, IEEE Education Society.



National Level

- **Appreciation Award for Best Faculty**, NMIMS University, India
 - *Appreciation award of "Best faculty in Computer Engineering" from NMIMS University for 3 years of career.*
 - *The award was a testimonial of contribution in the field of Teaching, Research,*



and Mentoring for students studying at NMIMS University.



- **Best Young Researcher (Below 40 years) Award** by GSIR Foundation, India in IARE Awards-2019, New Delhi, India
 - Conferred an award of “Best Young Researcher (Below 40 Years)” in the International Academic and Research Excellence Award (IARE- 2019).
 - After strict scrutiny and on the recommendation of external experts for this Award, it has been chosen among a few outstanding persons from India and Overseas.
- **Special Award in Education**, S.K.S. Sangh (2017 and 2019), Mumbai
 - Special award in the education field for research work in Computer Science and Education by S.K.S. Sangh, Mumbai.
 - The award was a testimony of my hard work in research, bringing new pedagogy in the education field and mentoring to the students.
- **Best Research Paper Award**, VCMT-2015, Multidisciplinary conference, Mumbai

RESEARCH PUBLICATIONS

Journal Publications

1. **Churi, P.**, Kalelkar, M., & Save, B. (2014). JSH Algorithm: A Password Encryption Technique using Jumbling-Salting-Hashing. *International Journal of Computer Applications*, 92(2).
2. **Churi, P. P.**, Bondre, S., & Gavankar, N. (2017). Honey-patterns: Recognizing Pattern-based Attacks on Websites. *International Journal of Computer Applications*, 161(9)
3. **Churi, P. P.**, & Mistry, K. (2017). DE-PRE Tool for Detection and Prevention from Input Validation Attacks on Website.
4. **Churi, P. P.**, & Deshmukh, S. (2017). Multimedia Transfer using Wireless LAN: A Case Study. *International Journal of Computer Applications*, 167(7).
5. **Churi, P. P.**, “Technology in Teaching: India’s Perspective”, *International Education and Research Journal*, Vol 3, no 7(2017).
6. **Churi, P.** (2017). E-commerce security with secure electronic transaction protocol: A survey and implementation. *International Journal of Advanced Research in Computer Science*, 8(8).
7. **Churi, P. P.** Performance Analysis of Data Encryption Algorithm, *International Journal of Recent Technology and Engineering (IJRTE)*, Volume-8 Issue-3, September 2019
8. **Churi, P. P.**, Deshmukh S., DNS Encryption using Innovative Algorithm, *International Journal for Research in Engineering Application & Management*, Volume 4 , Issue 2
9. **Churi, P. P.**, & Pawar, A. V. (2019). A Systematic Review on Privacy-Preserving Data Publishing Techniques. *Journal of Engineering Science & Technology Review*, 12(6).
10. Kalelkar, M., **Churi, P.**, & Kalelkar, D. (2014). Implementation of model-view-controller architecture pattern for business intelligence architecture. *International Journal of Computer Applications*, 102(12).
11. Savla, Y., & **Churi, P. P.** (2019). An Era of Cloud ERP: Significant Differentiation with Premise ERP. *Global Journal of Computer Science and Technology*.
12. Mistry, K., & **Churi, P.** Development of Innovative Course Outcomes: using SMART Goals.”, *International Journal of Recent Technology & Engineering (IJRTE)*, 2019.
13. Oruganti, R., Shah, S., Pavri, Y., Prasad, N., & **Churi, P.** (2017). JSsecure: A Secured Encryption Strategy for Payment Gateways in E-Commerce. *Circulation in Computer Science*, 2(5), 13-17.
14. Jamar, R., Rajpopat, J., **Churi, P.**, & Lekhrājani, S. (2017). Data analytics in banking. *International Journal of Advanced Research in Computer Science*, 8(9).
15. Dighe, S., Jain, M., Desai, A., Desai, Y., Reddy, M., & **Churi, P.** (2017). Analysis of Smart Store Solutions Using Proximity Technologies. *International Journal of Advanced Research in Computer Science*, 8(9).
16. Jindal, F., Jamar, R., & **Churi, P.** (2018). Future and challenges of internet of things. *International Journal of Computer Science & Information Technology (IJCSIT) Vol, 10*, 13-25.

17. Vichare, A., **Churi, P.**, "Experiences of Teaching Computer Network Course through Lesson Outcomes" *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 2019
18. Kagalwalla, N., Garg, T., **Churi, P.**, & Pawar, A. (2019). A survey on implementing privacy in healthcare: An indian perspective. *International Journal of Advanced Trends in Computer Science and Engineering*, 8(3), 963-682.
19. Kapoor, V., Singh, R., Reddy, R., & **Churi, P.** (2020). Privacy Issues in Wearable Technology: An Intrinsic Review. Available at SSRN 3566918.
20. Gupta, R., Doshi, A., Dharadhar, S., & **Churi, P.** Conceptual Architecture of CloudJS Encryption Algorithm.
21. Garg, T., Kagalwalla, N., **Churi, P.**, Pawar, A., & Deshmukh, S. (2020). A survey on security and privacy issues in IoT. *International Journal of Electrical and Computer Engineering*, 10(5), 5409.
22. Vartak, M., Reddy, R., **Churi, P.**, Image Encryption using Jumbling-Salting Algorithm, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-8 Issue-12S, October 2019
23. **Churi, P.**, Rao, NT., "Teaching Cybersecurity course in the classrooms of NMIMS University", *International Journal of Modern Education and Computer Science (IJMECS)*, Mecs-Press.
24. Reddy, R., Singh, R., Kapoor, V., & **Churi, P.** (2020). Joy of Learning Through Internet Memes. *International Journal of Engineering Pedagogy*, 10(5).
25. **Churi, P.**, Kubadia, A., Shah, Y., Idnani, D., Experiences of conducting online test during COVID19 Lockdown: A Case Study of NMIMS University, *International Journal of Engineering Pedagogy (iJEP)*.
26. Singh, R., Reddy, R., Kapoor, V., & **Churi, P.** (2020). K-means Clustering Analysis of Crimes on Indian Women. *Journal of Cybersecurity and Information Management (JCIM)* Vol, 4(1), 5-25.
27. Asad, M. M., Hussain, N., Wadho, M., Khand, Z. H., & **Churi, P. P.** (2020). Integration of e-learning technologies for interactive teaching and learning process: an empirical study on higher education institutes of Pakistan. *Journal of Applied Research in Higher Education*.
28. Sharma, A., Singh, R., **Churi, P.**, & Mali, M. Innovative Course Delivery using Analyze–Group–Design–Optimize (AGDO) Methodology: Case Study of Entity-Relationship Model.
29. Gupta, R., Dharadhar, S., & **Churi, P.** CloudJS File Encryption Algorithm for Cloud Environment, *International Journal Forensic Software Engineering*, Vol-3, Issue 1.
30. Sharma, A., Singh, R., **Churi, P.**, & Mali, M. Innovative Course Delivery using Analyze–Group–Design–Optimize (AGDO) Methodology: Case Study of Entity-Relationship Model.
31. **Churi P.**, Mistry K, Soni M, Dhiman G, Online Learning in COVID-19 Pandemic: An empirical study of Indian and Turkish Higher Education Institutions, *World Journal of Engineering*
32. Miranda-Calle, J. D., Reddy, V., Dhawan, P., & **Churi, P.** (2021). Exploratory data analysis for cybersecurity. *World Journal of Engineering*.
33. Singh, R., Timbadia, D., Kapoor, V., Reddy, R., **Churi, P.**, & Pimple, O. (2021). Question paper generation through progressive model and difficulty calculation on the Promexa Mobile Application. *Education and Information Technologies*, 1-29.
34. **Churi, Prathamesh;** Pawar, Ambika; Abdulmuhsin, Amir, Perception of Privacy issues and awareness in healthcare Knowledge Management Systems: Empirical Study in Indian Healthcare Context, *International Journal of Organizational Analysis*
35. Soni M, Dhiman G, **Churi P.** Hybridizing Convolutional Neural Network for Classification of Lung diseases, *International Journal of Swarm Intelligence Research (IJSIR)*

Conference Publications

1. **Churi, P. P.**, Ghate, V., & Ghag, K. (2015, November). Jumbling-Salting: An improvised approach for password encryption. In *2015 International Conference on Science and Technology (TICST)* (pp. 236-242). IEEE.
2. **Churi, P. P.**, Ghag, K.,. "Model-View-Controller Architecture Pattern in Business Intelligence." *National Multidisciplinary Conference on Commerce, Management and Technology, VCMT -2015*.
3. **Churi, P. P.**, Wagh, S., Kalelkar, D., & Kalelkar, M. (2016, March). Model-view-controller pattern in BI dashboards: Designing best practices. In *2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom)* (pp. 2082-2086). IEEE.

4. **Churi, P.**, Mistry, K., Dhruv, A., & Wagh, S. (2016, December). Alchemizing Education System By Developing 5 Layered Outcome Based Engineering Education (OBEE) Model. In *2016 IEEE 4th International Conference on MOOCs, Innovation, and Technology in Education (MITE)* (pp. 338-345). IEEE.
5. A. Churi, A. Bhat, R. Mohite, and **P. P. Churi**, "E-zip: An electronic lock for the secured system," 2016 IEEE International Conference on Advances in Electronics, Communication and Computer Technology (ICAECCT), Pune, India, 2016, pp. 45-49.
6. Jamar, R., Sogani, A., Mudgal, S., Bhadra, Y., & **Churi, P.** (2017, May). E-shield: Detection and prevention of website attacks. In *2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)* (pp. 706-710). IEEE.
7. Prasad, M. N., Oruganti, M. R., Shah, M. S., Pavri, M. Y., & **Churi, P.** (2018, July). Improvised E-commerce Transaction Security using JSSecure Algorithm. In *2018 IEEE International Conference on System, Computation, Automation and Networking (ICSCA)* (pp. 1-7). IEEE.
8. Jamar, R., Sogani, A., Mudgal, S., Bhadra, Y., & **Churi, P. P.** (2018, July). Website Attack Prevention Using E-Shield as a IDPS Tool. In *2018 IEEE International Conference on System, Computation, Automation and Networking (ICSCA)* (pp. 1-7). IEEE.
9. Jindal, M. F., Mudgal, M. S., Choudhari, M. V., & Churi, **M. P. P.** (2018, November). Emerging trends in Internet of Things. In *2018 Fifth HCT Information Technology Trends (ITT)* (pp. 50-60). IEEE.
10. Bakhtiani, R., Gandhi, M., **Churi, P.**, & Gupta, P. (2018, September). Big Data Strategies—A Review and Survey. In *2018 4th International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT)* (pp. 287-293). IEEE.
11. Bali, M. U., Udgata, M. N., & Churi, **M. P. P.** (2018, November). Symmetric Jumbling-Salting Encryption Algorithm for Files. In *2018 Fifth HCT Information Technology Trends (ITT)* (pp. 82-86). IEEE.
12. Pawar, A., Ahirrao, S., & **Churi, P. P.** (2018, November). Anonymization techniques for protecting privacy: A survey. In *2018 IEEE Punecon* (pp. 1-6). IEEE.
13. Agrawal, U., Koshy, I., & **Churi, P. P.** (2019, March). A Role of Blockchain in IoT and Financial Applications. In *2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN)* (pp. 1-7). IEEE.
14. Iyer, A., Bali, S., Kumar, I., **Churi, P.**, & Mistry, K. (2019, April). Presentation Abstraction Control Architecture Pattern in Business Intelligence. In *International Conference on Advances in Computing and Data Sciences* (pp. 666-679). Springer, Singapore.
15. Kagalwalla, N., & **Churi, P. P.** (2019, September). Cybersecurity in Aviation: An Intrinsic Review. In *2019 5th International Conference on Computing, Communication, Control And Automation (ICCUBEA)* (pp. 1-6). IEEE.
16. Jain, A., Shah, D., & **Churi, P.** (2019, September). A Review on Business Intelligence Systems Using Artificial Intelligence. In *International Conference on Computational Vision and Bio Inspired Computing* (pp. 1023-1030). Springer, Cham.
17. Joshi, S., Rambola, R., **Churi, P.** Evaluating Artificial Intelligence in Education for Next Generation, Journal of Physics, Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO)-2020.
18. Oruganti, R., **Churi, P.**, A Systematic Survey on Cryptographic methods used for key management in Cloud Computing, *International Conference on Innovative Computing and Communications-2021*

Book Edited

- **Data Protection and Privacy in Healthcare: Research and Innovations"**, CRC Press, Taylor and Francis LLC,
 - **Editors:** Dr. Ahmed Elngar, Dr. Ambika Pawar, Prathamesh Churi
 - **ISBN Number:** 978-0-367-50108-2
 - **Description:** The aim of the edited book is to bring out research in Data Protection and Privacy in healthcare and addresses the issues of Privacy in newer technologies. The book will provide a forum for enthusiastic researchers on all topics related to data privacy technologies, Policies, breaches in privacy considering healthcare as a multidisciplinary domain.
- **Technology and Tools in Engineering Education: Research and Innovations**, CRC Press, Taylor and Francis LLC,
 - **Editors:** Prathamesh Churi, Dr. Vishal Kumar, Dr. N T Rao, Dr. Utku Kose
 - **ISBN Number:** 978-0-367-60774-6

- **Description:** The book explores the innovative and research methods of teaching learning process. The book focuses on the use of technology in the field of education. Technology can reduce the tremendous effort given by students to gather some printed book and journals for acquiring knowledge and increase students; focus on more important knowledge gathering process. Equally important, technology can represent education in ways that help students understand latest concepts and ideas. The Education Technology also enables teachers to integrate project-based learning.
- **Innovative Education Technologies for 21st Teaching and Learning**, CRC Press, Taylor and Francis LLC
 - **Editors:** Dr. Asad, Dr. Sherwani, Dr. Hassan, and Prof. Churi
 - **ISBN Number:** 978-0-367-69904-8
 - **Description:** this proposed book will highlight all the aspects of innovative 21st century educational technologies and skills which can enhance the teaching and learning process on the broader spectrum based on the best practices around the globe. Also, the challenges and how those challenges can be mitigated by technology which educational institutions are facing due to COVID-19 pandemic for teaching and learning will be highlight in this book.

Special Issue

- **Research Directions and Innovation Data Protection and Privacy in Healthcare**, Journal of Cyber Security and Information Management, ASPG Publisher
 - **Total Number of papers accepted:** 5
 - **Role:** Guest Editor-in-Chief
 - **Link:** <http://americaspg.com/articleslist/2/102/85>
 - **Description:** The aim of this Special Issue is to bring out research in data protection and privacy in healthcare and address the issues of privacy in new technologies. The special issue will provide a forum for enthusiastic researchers on all topics related to data privacy technologies, policies, and breaches in privacy, while considering healthcare as a multidisciplinary domain. The special issue also welcomes other timely aspects of privacy in the healthcare field, such as in usable security, the internet of things, cloud computing, cryptography, and big data.

Research Collaboration

Research Mentor, Cerebranium European Start-up.

- **Project Name:** AI based Proctoring System and Education Management



Patents

- Patent: *Lightweight Vehicle to Infrastructure Message Verification Method for VANET*, (Patent number - 202021032638), Filed: July 30,2020, Status: Published
- Patent: *Method for predicting disease using machine learning* (Patent number- 202011032563), Filed: July 29, 2020, Status: Published
- Patent: *Crusher Apparatus for Decomposable Goods* (Patent number-332466-001), Filed: August 28,2020, Status: Published
- International Patent (Australia): *Velocity and Network Condition Based Network Selection Method for WiMAX/WLAN Integrated Networks* (Patent number- 2020102358), Status: Granted
- International Patent (Australia): *Privacy-preserving Authentication and Key Management Protocol for Health Information System* (Patent number: 2021101195), Status: Granted (March 7, 2021)

CAPSTONE PROJECTS

Projects Undertaken

- **Honey pot Security for website testing (B.E Project)**

- **Duration:** August 2012 to May 2013
 - **Project partners:** Ms. Shreya Bondre, Ms. Neha Gavankar
 - **Project Description:** The project tracks the user activity on a particular website. The numbers of possible attacks are already coded in the script. If any user tries to perform malicious action on website, the tracking code will track the user's statistics like IP address, host address, timing parameters, type of attack etc. We have used PHP-MySQL platform for coding.
 - **Outcome:** A Research paper is published in International Journal of Computer Applications, NY, USA
- **Jumbling- Salting: An Improved Approach for Password Encryption (M.E Project)**
 - **Duration:** June 2014- June 2015
 - **Project Mentors:** Prof. Kranti Ghag, Prof. Vaishali Ghate
 - **Project Description:** This Project presents an improvised approach for password encryption. The major aspect of password protection issue is to secure it by means of encryption process. In cryptanalysis, dictionary attacks or brute force attacks are the most common ways of cracking passwords. A new approach for improvising the scheme of password encryption is to use the process of Jumbling-Salting (JS). In order to augment the security aspect regarding passwords, we are devising JS algorithm which prevents dictionary and brute force attacks by increasing the length of cipher text in a considerable limit. In this algorithm, the jumbling process selects characters from pre-defined character set and adds them into the plain password using mathematical modulus (%) function; salting comprises of adding a random string into jumbled password. Ultimately AES block is implemented which obtains a fixed length version of JS algorithm which ensures that there is increase in time to crack the cipher text password, by forming a highly secured version of encrypted password.
 - **Outcome:** A research paper is published in the International Conference on Science and Technology, 2015 organized by RMUTT University, Thailand (Indexed by Scopus and Web of Science, Total Citations – 21)
 - **Designing Privacy Model with Access Control in Healthcare (PhD Work- Ongoing)**
 - **Duration:** January 2020- Current
 - **Project Mentor:** Dr. Ambika Pawar
 - **Project Description:** The research works aims at developing privacy preserving data publishing model and role-based access control techniques.
 - **Outcome:** Total Number of publications – 2; Total number of books edited- 1; Research proposal is accepted by RRC.

Projects Mentored

- **CloudJS: A framework for cloud file encryption**
 - **Duration:** July 2020 – April 2021
 - **Students:** Rhea Gupta, Sara Dharadhar
 - **Description:** Cloud computing is an extremely popular technology in today's world and its popularity arises from its ability to store, process, manage, and retrieve data from anywhere at any time. Along with its many advantages, security and privacy have proven to be a major setback for this technology. Security concerns of Cloud data include its protection from data breaches, hijacking of accounts, insider threat, malware injection, abuse of cloud services, DOS Attacks, insufficient due diligence, insecure APIs, shared vulnerabilities, and data loss. Encryption algorithms that address these concerns have been reviewed along with the Jumbling Salting algorithm and its applications. The main goal of this research work is to propose a framework for cloud encryption using the CloudJS algorithm and to compare the results for the same.
 - **Outcome:** A Review paper is published in Inderscience International Journal on Software Forensic Engineering
- **Privacy framework using data tagging and role-based access control**
 - **Duration:** July 2020 – April 2021
 - **Students:** Navid Kagalwalla, Tanvi Garg
 - **Description:** The project aims to design and develop a system which assigns data tags to healthcare data depending on the sensitivity of information. This data would then undergo anonymization by using the ARX tool to prevent membership or attribute disclosure attacks. It implements policies for role-based access control which enable only authorised and authenticated individuals to view the healthcare data. This would enable the secure sharing and viewing of healthcare data.

- **Keynote Speaker**, *Springer International Conference on Advances in Computing and Data Sciences*, Privacy Preserving Data Publishing
- **Guest Lecture**, Pillars of Digital India, *AICTE-ISTE approved Short Term Training Program (STTP) on Digitization and E-Governance*. Spoken on architecture, Organized by St. Francis Institute of Technology, Mumbai
- **Guest Lecture**, Information Security in *Kala Vidya Mandir Polytechnic College*, affiliated to Maharashtra State Board of Technical Education, Mumbai
- **Guest Lecture**, Project Management, *Kala Vidya Mandir Polytechnic College*, affiliated to Maharashtra State Board of Technical Education, Mumbai
- **Guest Lecture**, Research Paper Writing, Organized by:
 - Patkar- Varde College (Affiliated to University of Mumbai)
 - D. J. Sanghavi College of Engineering (An Autonomous Engineering under University of Mumbai)
 - NMIMS Mukesh Patel School of Technology Management and Engineering, Mumbai
- **Guest Lecture**, Writing Effective Review Paper, Organized by:
 - Network for the Open Web, MPSTME, Mumbai
 - ACM Chapter, VIT Mumbai
- **Guest Lecture**, Data Privacy in Healthcare, Organized by Biomedical Student Association, VIT, Mumbai
- **Guest Lecture**, Importance of Research, Department of Computer Science & IT Kathua Campus, University of Jammu, J&K (India)

CERTIFICATIONS

Certifications on Research

- **Fundamentals of Peer Review**, Elsevier Research Academy, Elsevier Publications.
- **Focus on Peer Review**, Springer Nature, Springer Publications.

Certifications on Engineering and Technology

- **Android Certified Programmer**, Monster India Channel Partner in collaboration with Seven Consultants.
- **Basics of Python Programming Language**, Udemy Certification
- **Dale Carnegie Training for Professionals**, Dale Carnegie
- **Basics of R Programming Language**, Udemy Certification
- **Data Anonymization and GDPR**, Udemy Certification

Certifications on Leadership

- **Leadership Development for Engineers Specialization**, Rice University, Courseera Certification (3 Months)
 - *Self-awareness and Effective leader (4 Week certification)*
 - *Relationship Management (4 Week certification)*
 - *Personal leadership development and leading high-performance teams (4-week certification)*

PROFESSIONAL TRAINING

Professional Courses

- ISTE approved Short Term Training Program (STTP) on Advance Data Mining: Tools and Techniques, 1-Week training program organized by Information Technology Department, SAKEC, University of Mumbai.
- ISTE approved Short Term Training Program (STTP) on Cloud Computing, 1-Week training program organized by Information Technology Department, VCET, University of Mumbai.
- ISTE approved Short Term Training Program (STTP) on Internet of Things IoT), 1-Week training program organized by Information Technology Department, VCET, University of Mumbai.
- Faculty Development Program on Cyber Security: Trends and Techniques, Indian Institute of Technology, Patna

- A Role of Faculty in Accreditations (NIRF, NAAC and NBA) in Higher Education, 3-Day Workshop by NMIMS University

Conference Attended

- IEEE - The International Conference on Science and Technology (TICST-2015), RMUTT University, Thailand
- National Multidisciplinary Conference on Commerce, Management and Technology, VCMT -2015, Mumbai.
- 3rd International Conference on Computing for sustainable global development (INDIACom-2016)
- 4th International Conference on Computing for sustainable global development (INDIACom-2017)
- Fourth IEEE International Conference on MOOCs, Innovation and Technology in Education - MITE2016
- 3rd International Multidisciplinary Engineering Research Conference, Sri Lanka – MERCon 2017
- IEEE - The International Conference on Science and Technology (TICST-2017), RMUTT University, Thailand
- IEEE – The International Conference on Systems, Computation, Automation and Networking
- The International IEEE Conference on Systems, Computation, Automation and Networking, 2018
- IEEE HCT Information Technology Trends, United Arab Emirates, Abu Dhabi
- IEEE International PUNECon 2018, India
- 1st IEEE VITECon 2019, Vellore Institute of Technology, Vellore
- 3rd International Springer ICACDS Conference 2019
- Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO)-2019
- Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO)-2020

MEMBERSHIPS



Life member, Indian Society for Technical Education, Membership number – LM 10134



Life member, International Association of Engineering, Membership number- 172311



Professional and Senior member, IEEE (2 years), Membership number- 93268344



IEEE Computer Society Student member, Membership number- 93268344



Computer Society of India, Membership number – I1503343



Association for Computing Machinery, Membership number- 7351873

ADDITIONAL INFORMATION

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Date of Birth

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Place of Birth

Virar

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Countries Visited (Professional Visits only)

Thailand, United Arab Emirates, Sri Lanka

Hobbies

Travelling, Research, Teaching, Writing

References available on request