

# ASHWINI DALVI

## PRESENT POSITION

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Assistant Professor, Department of Information Technology, KJSCE

## INTEREST AREAS

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- ✓ Internet of Things
- ✓ Predictive Analysis
- ✓ Behaviour Modelling
- ✓ Information Security
- ✓ Communication Engineering

## ACADEMIC QUALIFICATION

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Pursuing Ph.D (Computer)	Year of Admission 2019	VJTI, Mumbai, India
Master of Technology (Computer)	2011	VJTI, Mumbai, India
B. E. (Electronics and Telecommunication)	2004	S.H. Jondhale College of Engineering, Mumbai University, India

## ACADEMIC ACHIEVEMENTS AND AWARDS

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- ✓ Best Teacher, Higher Education category, Somaiya Awards 2018
- ✓ Distinction In M.Tech, VJTI

## COURSES TAUGHT

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- ✓ **Post Graduate Courses:** Software Vulnerability Analysis, Security for Internet of Things, Application and Web Security,

- ✓ **Under Graduate Courses:** User Experience Design, Object Oriented Software Engineering, Software architecture, Advanced Internet Technologies, Principle of Communication Engineering, Digital Logic design and Application

## **RESEARCH PROJECT**

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- 1) **Ongoing** the project work entitled “Landscape Analysis for Online Child Trafficking and Online Child Sexual Exploitation”, funded by Children’s Investment Fund and Foundation (CIFF), in capacity of Consultant in year 2019
- 2) **Sectioned** the project work entitled “IoT based Crowd Analytics and Management at railway Foot-over Bridge”, (Ref No. APD/ICD/2019-20/762) under the university minor research grant scheme 2019-20 of University of Mumbai in capacity of Co-PI
- 3) **Ongoing** the project work entitled “ Grain Quality assessor”, by National Bulk Handling Corporation Pvt. Ltd. (NBHC), Mumbai in capacity of Co-PI in year 2019
- 4) **Mentored** project for Territorial Army along with CPF for development of ERP software named as ‘JOSH’: The project got selected as Proof of Concept for Kumavat Regiment Jammu and Kashmir, February 2018.
- 5) **Completed** the project work entitled “Black Button: Pollution Data Provider”, (Project No: 465, Ref. No. :ADP/237/429 of 2017) under the university minor research grant scheme 2016-17 of University of Mumbai in capacity of Co-PI
- 6) **Completed** the project work entitled “Dream Admission” in year 2014. Dream Admission, an Android App, is a one stop platform for all information related to First year Engineering admission. This Android application has sections which direct the aspirant to official college sites, official DTE websites, official DTE pages, DTE regional offices, and also gives information about Locations and Phone number of Admission Resource Centers.

## **ONLINE COURSE**

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- Completed course on “Industrial IoT on Google Cloud Platform” by Google Cloud , Coursera, June 2019

## **PUBLICATIONS**

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### **Journal publications**

- 1) Irfan Siddavatam, Ashwini Dalvi, Dipen Gupta, Zaid Farooqui, Mihir Chouhan, “Multi Genre Music Classification and Conversion System”, International Journal of Information

Engineering and Electronic Business, 2020, 1, 30-36, Published Online February 2020 in MECS Press, DOI: 10.5815/ijieeb.2020.01.04

- 2) Ashwini Dalvi, Irfan Siddavatam, Sagar Ailani, Smith Dedhia, Shyamal Makwana, "Text Analyzer for Competitive Examination", I.J. Education and Management Engineering, 2019, 6, 25-34, DOI: 10.5815/ijeme.2019.06.03
- 3) Sagar Ailani, Ashwini Dalvi, Irfan Siddavatam, "Grammatical Error Correction (GEC): Research Approaches till Now", International Journal of Computer Applications (IJCA), August 2019 2018, ISSN- 0975 – 8887
- 4) Omkar Ghaisas, Irfan Siddavatam, Ashwini Dalvi, Faruk Kazi, "Simulation of Anonymity Network Model", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-8, Issue-7, May 2019. Unpaid Scopus Index Journal.
- 5) Ashwini Dalvi, Dhruv Gada, Irfan Siddavatam, "Extended Aid to Alzheimer and Dementia Patients using Novel Wearable Technology", International Journal of Computer Applications (IJCA), Volume 182 – No. 23, October 2018, ISSN- 0975 – 8887
- 6) Darshan Tank, Ashwini Dalvi, "A Novel Approach to Prevent Session Hijacking Attack", International Journal of Computer Applications (IJCA), September 2018, ISSN- 0975 - 8887
- 7) Fenil Ganger, Hiral Gori, Ashwini Dalvi, "Automatic Question Paper Generator", International Journal of Computer Applications (IJCA), May 2017, ISSN- 0975 - 8887
- 8) Ashwini Dalvi, "An Integrative Trust Model in Evaluation Process: An Innovative Approach", Online Journal of Engineering Education Transformations (JEET), the official Journal of IUCEE, January 2017
- 9) Kaushal Meher, Ashwini Dalvi, "Smart ATM- Reactive Measures against Physical Threats", International Journal of Latest Trends in Engineering and Technology (IJLTET), Volume 7, Issue 1, May 2016, ISSN- 2278-621X
- 10) Ashwini Dalvi, Pooja Sankhe, Tejaswini Dhaygude, Archana Kamble, "Contact Management Using QR Code", International Journal of Modern Trends in Engineering and Research, IJMTER, July 2015
- 11) Ashwini Dalvi, Dhvani Shah, Rujul Desai, Shraddha Vora, Vaibhav Tailor, " The Prophecy- Prototype of Predication modelling Tool", Volume 3, Special Issue 1, February 2014, International Journal of Innovative Research in Science, Engineering, and Technology (IJIREST)
- 12) Ashwini Dalvi, Pamukumar Swamy, B. B. Meshram, "DCF Improvement for Satisfactory Throughput of 802.11 WLAN", Vol. 3 No. 7 July 2011, International Journal on Computer Science and Engineering (IJCSE)

## **International Conference Publications**

- 1) Shivani Thakkar, Ashwini Dalvi, Irfan Siddavatam, Faruk Kazi, “Applicability of Blockchain for Synchronphasor Network”, International Conference on “ Advances in Science and Technology” (ICAST -2019), Mumbai, 8<sup>th</sup>-9<sup>th</sup> April, 2019. Conference proceedings published at SSRN-Elsevier Online Conference Publication Portal.
- 2) Irfan Siddavatam, Ashwini Dalvi, Shivam Pathak, kshitiz Shrivastav, “Hierarchical Distributed Ledger for IoT using Ethereum Blockchain”, accepted in IEEE Sponsored 2019 5th International Conference for Convergence in Technology, Pune, India, 29th -31st March 2019
- 3) Shivani Thakkar, Ashwini Dalvi, Irfan Siddavatam, Faruk Kazi, “Blockchain as a Solution for Secure Synchronphasor Communication”, IEEE International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (IEEE- ICECEIC), 30th & 31st January 2019
- 4) Ashwini Dalvi, Irfan Siddavatam, “SnoopMe Interactive Task Scheduler Mobile Application for Students”, 3rd Biennial International Conference on Nascent Technologies in Engineering, 4-5 January 2019, Fr. C. Rodrigues Institute of Technology, Vashi, Mumbai
- 5) Ashwini Dalvi, Riya Saraf, “Inspecting College Engineering Websites for effective search ”, 3rd Biennial International Conference on Nascent Technologies in Engineering, 4-5 January 2019, Fr. C. Rodrigues Institute of Technology, Vashi, Mumbai
- 6) Irfan Siddavatam, Ashwini Dalvi, Dipen Gupta, Mihir Chouhan, Zaid Farooqui, “Extending Role of AI From Music Genre Classification to Music Genre Conversion”, International Conference on New Trends in Engineering & Technology (ICNTET), IEEE Madras Section, 7-8 September, 2018, Chennai, Tamil Nadu
- 7) Ashwini Dalvi, Saraswati Maddala, Divya Survana, “Threat modelling of Smart Light Bulb”, 4th International Conference On Computing, Communication, Control And Automation, Pune, 16th - 18th Aug 2018 IEEE CATALOG NUMBER 978-1-5386-5257-2/18
- 8) Ashwini Dalvi, Omaker Ghaisas, Tanamy Toraskar, “Simulation of Sinkhole Attack on RPL Routing protocol”, International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - (ICRIEECE), Bhuvaneshwar, 27-28 July, 2018, IEEE CATALOG NUMBER 978-1-5386-5995-3/18
- 9) Ashwini Dalvi, Irfan Siddavatam, “Blockchain for Securing IoT Application: Feasibility and Challenges”, International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), 28-29 January 2018, IEEE CATALOG NUMBERS (ISBN): XPLORE COMPLIANT: CFP18O37-ART- 978-1-5386-4304-4

- 10) Aditi Kumar, Ashwini Dalvi, “Automating Parsing of Prefetch files in forensic analysis tool”, International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), 28-29 January 2018, IEEE CATALOG NUMBERS (ISBN): XPLORE COMPLIANT: CFP18O37-ART- 978-1-5386-4304-4
- 11) Ashwini Dalvi, Irfan Siddavatam, Nishigandha Dandekar, Aniket Patil, “3D Holographic Projections using Prism and Hand Gesture Recognition”, International Conference on Advanced Research in Computer Science Engineering & Technology (ICARCSET 2015), Proceedings published in ACM Digital Library
- 12) Ashwini Dalvi, Irfan Siddavatam, Nishigandha Dandekar, Aniket Patil, “Prism based Interactive 3D Holographic Projection”, International Conference on Futuristic Trends on Computational Analysis and Knowledge Management (ABLAZE 2015), 25–27 February 2015, New Delhi, India
- 13) Ashwini Dalvi, Aditi Parab, Priyanaka Kumavat, “An Intelligent Music Player”, International Conference on Futuristic Trends on Computational Analysis and Knowledge Management (ABLAZE 2015), 25–27 February 2015, New Delhi, India
- 14) Ashwini Dalvi, Pamukumar Swamy, B. B. Meshram, “Cognitive Radio Network: Emerging Trend of Next Generation Communication System”, (Wireless VITAE 2011) Chennai. Proceeding published in IEEE Xplore.
- 15) Ashwini Dalvi, Pamukumar Swamy, B. B. Meshram, “ Centralized Management approaches for WLAN” CNC-2011, Bangalore, Karnataka. Proceedings published by Springer LNCS-CCIS
- 16) Ashwini Dalvi, Pamukumar Swamy, Uttam Kolekar “Overhead Of Distributed Coordinated Function In 802.11 MAC Protocol” International Conference NuiCONE-2010
- 17) Ashwini Dalvi, Pamukumar Swamy, B. B. Meshram, “ Implementation Challenges in spectrum Sensing”,ICWET 2011, Thakur College, Mumbai
- 18) Ashwini Dalvi, “Cognitive Network Agent for Wireless LAN”, International Conference on Computer Applications, (ICCA) 2010, Pondicherry, India

### **National Conference Publications**

- 1) Ashwini Dalvi, Pamukumar Swamy, B. B. Meshram “Admission Control Policy for WLAN - A Cognitive Approach”, National Level Conference on Network Infrastructure Management Systems, INTERFACE 2010, VJTI, Mumbai.

**CONFERENCES / SEMINARS / TRAINING PROGRAMS DELIVERED**

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- ✓ Delivered session on AI for Security , Network Intelligence Pvt. Ltd, Andheri, Mumbai, 28<sup>th</sup> January, 2020
- ✓ Delivered session on Industry 4.0 Security Challenges, AICTE and ISTE approved STTP on “ Industrial IoT System Design from Sensing to Mitigation”, K.J.Somaiya College of Engineering, 2<sup>nd</sup> January, 2020
- ✓ Conducted Hands-on session on Introduction to Raspberry PI, IoT protocol for communication, Application for Machine learning on IoT , STTP on “ IOT with Data Science” , Fr. C. Rodrigues Institute of Technology, 25th June, 2019
- ✓ Conducted Hands-on session on IoT Analytic with Cloud Data , AICTE and ISTE approved STTP on “ Industrial IoT System Design from Sensing to Mitigation”, KJSCE, 14th June, 2019
- ✓ Speaker for topic ‘Online Security’ at Boost with Facebook Event , Facebook, World Trade Center, 10th June ,2019
- ✓ Technical Judge for the final round of HACK-IoT November 2<sup>nd</sup>, 2018 BloomBox, Entrepreneurship Cell KJSCE
- ✓ Conducted Hands-on session on “Machine Learning with Tensorflow”, AICTE and ISTE approved STTP on “Machine Learning With Tensorflow” in Vidyavardhini’s COE, Vasai, 1<sup>st</sup> July,2018
- ✓ Conducted Hands-on session on “PenTesting Cloud Application (AWS) using BURP”, AICTE-ISTE SPONSORED Induction/ Refresher Programme on Cloud Computing and Security, KJSCE, 12th June ,2018
- ✓ Delivered a lecture on “IoT Data Perspective” AICTE and ISTE approved STTP on “Internet of Things and Its Applications”, in M.H. Saboo Siddik Polytechnic, Mumbai, September 29, 2017
- ✓ Delivered a lecture on “R for Bioinformatics” ISTE approved STTP on “Bioinformatics: Emerging Research Trends and Applications” in K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, June 28, 2017.
- ✓ Delivered a lecture on “Security in IoT”, in ISTE approved STTP on “Digital Security” in K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, June 30, 2016.

- ✓ Delivered a lecture on “Research Trends in IoT”, in ISTE approved STTP on “Internet of Things” in K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, January 8, 2016.
- ✓ Delivered a lecture on “Introduction to IoT”, in K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, January 23, 2019
- ✓ Conducted Hands-on session on “ Python for Bioinformatics”, in K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, October 10, 2018
- ✓ Delivered a lecture on “Comprehending SRS for Final Year BTech project - How to avoid potential pitfalls?”, in K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, October 10, 2018
- ✓ Conducted Hands-on session on "IoT Communication using MQTT Cloud Services" in K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, 22 September, 2018

**PARTICIPATION AT UNIVERSITY/ OTHER INSTITUTION LEVEL:**

- ✓ Reviewer for The Fifth International Conference on Electrical, Electronics, Computer Engineering and their Applications (EECEA2020), April 1-3, 2020, University of Perpetual Help System DALTA, Las Piñas, Manila, Philippines
- ✓ Reviewer for The Eighth International Conference on Digital Information Processing and Communications (ICDIPC), March 26-28, 2020, Avrasya University, Trabzon, Turkey, (IEEE Turkey section)
- ✓ Reviewer for The Seventh International Conference on Transformations in Engineering Education, ICTIEE 2020, Jan 5 to 8, 2020, Indo Universal Collaboration for Engineering Education, Hyderabad
- ✓ Reviewer for The 8th International Conference on E-Learning and E-Technologies in Education, September 16-18, 2019, Lodz University of Technology, Lodz, Poland
- ✓ Reviewer for The Sixth International Conference on Artificial Intelligence and Pattern Recognition AIPR2019, September 16-18, 2019, Lodz University of Technology, Lodz, Poland

- ✓ Reviewer for The 8th International Conference on Informatics and Applications ICIA2019 August 2-4, 2019, Takamatsu Sunport Hall Building, Japan
- ✓ Reviewer for The Fifth International Conference on Electronics and Software Science ICESS2019, August 2-4, 2019, Takamatsu Sunport Hall Building, Japan
- ✓ Reviewer for Seventh International Conference on Digital Information Processing and Communications (ICDIPC) April, 2019, Avrasya University, Trabzon, Turkey (IEEE Turkey section)
- ✓ Reviewer for 9th International Conference on Digital Information and Communication Technology and its Applications (DICTAP2019), March, 2019, Faculty of Engineering, Lebanese University, Campus of Hadath, Beirut, Lebanon
- ✓ Reviewer for 3rd Biennial International Conference on Nascent Technologies in Engineering, 4-5 January 2019, Fr. C. Rodrigues Institute of Technology, Vashi, Mumbai
- ✓ Reviewer for AP International Conference on Transformations in Engineering Education 2018, 15-17th July, 2018, Indo-Universal Collaboration for Engineering Education (IUCEE)
- ✓ Reviewer for Fifth International Conference on Transformations in Engineering Education (ICTIEE'18) 8-9th January, 2018 Indo-Universal Collaboration for Engineering Education (IUCEE)
- ✓ Reviewer for ICTIEEH 2017, January 6-8, 2017, Indo Universal Collaboration for Engineering Education
- ✓ Reviewer for 2nd Biennial International Conference on Nascent Technologies in Engineering, January 27-28 2017, Fr. C. Rodrigues Institute of Technology, Vashi
- ✓ Published News article Series in Regional Newspaper titled "Sakal", 2014

#### **CONFERENCES / SEMINARS / TRAINING PROGRAMS ORGANISED**

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- ✓ Organizing committee member for Global Contribution Sprint Presented by ERPNext Foundation and K.J. Somaiya College of Engineering, 24-25 October, 2018.
- ✓ Organizing committee member for ISTE approved STTP on "Internet of Things" in K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, January 4 - January 8, 2016.



- ✓ Organizing committee member for National Conference on “Emerging trends in computers, communication and Information Technology”, at K.J.S.C.E., Mumbai, March 20-21, 2009.

#### **CONFERENCES / SEMINARS / TRAINING PROGRAMS ATTENDED**

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- ✓ Completed Faculty Development FDP301x Mentoring Educators in Educational Technology, IIT Bombay, June, 2018
- ✓ Completed Faculty Development FDP201x Pedagogy for Online and Blended Teaching-Learning Process, IIT Bombay, May 2018
- ✓ Completed Faculty Development FDP101x Foundation Program in ICT for Education, IIT Bombay, September 2017
- ✓ Attended ISTE approved one week Short Term Training Program on “Data Science and Big data Analytics”, at Fr. C. Rodrigues Institute of Technology, Vashi, December 19-December 24, 2016
- ✓ Attended ISTE approved one week Short Term Training Program on “SMAC”, at K.J.S.C.E., Mumbai December 05- December 09, 2016
- ✓ Attended Two days Training Program on “Frameworks”, at K.J.S.C.E., Mumbai, March 2016
- ✓ Attended Faculty Development Program, organized by iGATE, Mumbai, May 25- May 29, 2015.
- ✓ Attended Four days Training Program on “NBA’s Outcome Based Accreditation”, at K.J.S.C.E., Mumbai, June 2014
- ✓ Attended ISTE approved one week Short Term Training Program on “Tools and Techniques for Effective Technical Writing”, at K.J.S.C.E., Mumbai May 13- May 17, 2013.
- ✓ Attended 1 Day seminar on Ethical Hacking and Network Security, Mumbai, January 12, 2013.
- ✓ Attended Two days Training Program on “Aakash For Education”, at K.J.S.C.E., Mumbai, November 2012
- ✓ Attended International Conference, organized by Thakur College of Engineering, Mumbai, February 2011
- ✓ Attended National Conference organized by VJTI, Mumbai, December 2010.
- ✓ Attended Two days STTP on “Workshop On wired and Wireless Devices” D Y Patil College, Pune 2008

- ✓ Attended ISTE approved Short Term Training Program on 'Wireless Communication and Mobile Computing', at Don Bosco Institute of Technology, Mumbai, 2008
- ✓ Attended ISTE approved Two week Short Term Training Program on 'Image Processing and Multimedia: Technologies and Applications', at K.J.S.C.E., Mumbai, 2007

#### **MEMBERSHIP OF PROFESSIONAL COMMITTEES / BODIES**

- ✓ Life Member of Indian Society of Technical Education, New Delhi, India, since 2009.

#### **PERSONAL DETAILS**

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Name	-	Ashwini Dalvi
Date of Birth	-	16 <sup>th</sup> June, 1983
Nationality	-	Indian
Languages known	-	Marathi, English, Hindi
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Email	-	ashwinidalvi@somaiya.edu / ashwinidalvi@gmail.com