Somaiya Vidyavihar University

Name: Ashwini Dalvi			**E-mail: ashwinidalvi@somaiya.edu**
Contact No: 9833109041			
Department/Section: Department of Information Technology			
College: K J Somaiya College of Engineering			
DOJ Somaiya: 1-12-2006	Career Experience: 18 Yrs	Industry Experience: 00 Yrs	Teaching Experience: 18 Yrs
Present Academic Designation: (Assistant Professor)		Present Administrative Designation: Associate HoD	

Area of research/specialization and Courses Delivered

Research domain/interests/areas

1. Information Security
2. Artificial Intelligence
3. Machine Learning
4. Application Development

Courses Delivered

1. **Post Graduate Courses:** Software Vulnerability Analysis, Security for Internet of Things, Application and Web Security,
2. **Under Graduate Courses:** User Experience Design, Object Oriented Software Engineering, Software architecture, Advanced Internet Technologies, Principle of Communication Engineering, Digital Logic design and Application

Recognition as a teacher by any University	UG: No	PG: No	Ph.D : No
Details of Recognitions 1. NA			

Education

Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D (Pursuing)	PhD	V J T I	V J T I	--	
PG	M. Tech. Computer Engineering	V J T I	V J T I	2011	Dist.
UG	B. E. Electronics and Tele Comm.	Mumbai University	S.H. Jondhale College of Engineering,	2004	First
NET/SET/Other					

Notable Experience Details

Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	K J Somaiya College of Engineering	Asst. Professor	1st December 2010	--	17 years 10 Months

Research Accomplishments and Projects

No of students pursuing Ph.D as on date: NA		No of students completed Ph.D as on date: NA
No of students completed PG thesis / Project work as on date: 08		No of students / groups completed UG projects as on date: 40+
Publications Total: 40+	Number of Peer review Journal papers: 15	Number of Conference papers: 22+

Details of Publications:

International Journals

1. Dalvi, Ashwini, et al. "An Analysis of Topic Modeling Approaches." Innovations and Advances in Cognitive Systems: ICIACS 2024, Volume 2: 150.
2. Dalvi A, et al., (2023), "A Hybrid TF-IDF and RNN Model for Multi-label Classification of the Deep and Dark Web", International Journal of Advanced Computer Science and Applications, Science and Information Organization Publication
3. Dalvi, Ashwini, et al. "FLASH: Web-Form's Logical Analysis & Session Handling Automatic Form Classification and Filling on Surface and Dark Web." Robotic Process Automation (2023): 61-100.
4. Gokhale, Sheetal, Irfan Siddavatam, Ashwini Dalvi, Mohammed Shaikh, and Suchitra Patil (2022), "Formal modeling and verification of high interactive honeypot using colored Petri nets", International Journal of Critical Computer-Based Systems, Inderscience Publication.

National Journals

1. Nil

Conferences

1. Dalvi, Ashwini, et al. "An Analysis of Topic Modeling Approaches for Unlabeled Dark Web Data Classification." International Conference on Innovations and Advances in Cognitive Systems. Cham: Springer Nature Switzerland, 2024.
2. Parikh, Rahil, and Ashwini Dalvi. "Identifying Instances of Cyberbullying on Twitter Using Deep Learning Check for updates." Intelligent Systems for Smart Cities: Select Proceedings of the 2nd International Conference, ICISA 2023. Springer Nature, 2024.
3. Parikh, R., Nimonkar, H., Gandhi, R., Budhrani, T., Dalvi, A., & Siddavatam, I. (2023, December). Streamlining Educational Assessment: A User-Centric Analysis of an AI-Powered Examination App. In 2023 6th International Conference on Advances in Science and Technology (ICAST) (pp. 341-345). IEEE.
4. Parikh, R., Nimonkar, H., Karra, S., Dalvi, A., & Siddavatam, I. (2023, December). Enhancing Student Welfare: A Comprehensive Analysis of the User Interface for a University Mental Health Counselling App. In International Conference on Advancements in Smart Computing and Information Security (pp. 194-203). Cham: Springer Nature Switzerland.
5. Dalvi, Ashwini, et al. "Keyword-Based Information Retrieval Model for the Dark Web." 2023 2nd International Conference on Futuristic Technologies (INCOFT). IEEE, 2023.
6. Dalvi, Ashwini, et al. "Summarizing Dark Web Services with TF-IDF and LSA." 2023 7th International Conference On Computing, Communication, Control And Automation (ICCUBEA). IEEE, 2023.
7. Parikh, R., Nimonkar, H., Vengurlekar, V., Dalvi, A., & Siddavatam, I. (2023, July). User Reception is Everything: Using a Neural Network to Predict iOS App Ratings. In International Conference on Data Science and Applications (pp. 419-428). Singapore: Springer Nature Singapore.
8. Dalvi A, et al., (2023), "An analysis of feature engineering approaches for unlabeled dark web data classification", Proceedings of World Conference on Artificial Intelligence: Advances and Applications. WWCA 1997. Algorithms for Intelligent Systems. Springer, Singapore.
9. Dalvi A, et al., (2023), "Dark Web Crawling for Cybersecurity: Insights into Vulnerabilities and Ransomware Discussions", 2nd International Conference for Innovation in Technology (INOCON), IEEE.
10. Dalvi A, et al., (2022), "Name Entity Recognition (NER) Based Drug Related Page Classification on Dark Web", International Conference on Trends in Quantum Computing and Emerging Business Technologies (TQCEBT), IEEE.

Books/Book Chapters

1. Dalvi A, et al., (2023), "Automatic web form classification and filling on the surface and dark web", Book Title: Robotic Process Automation – An Intelligent Business Computational System, Publisher – Wiley-Scrivener
2. Dalvi A, et al., (2022), "Content Labelling of Hidden Services With Keyword Extraction Using the

Graph Decomposition Method", Book Title: Using Computational Intelligence for the Dark Web and Illicit Behavior Detection (pp. 181-205). Publisher – IGI Global Publication

Patents/Copy Rights

1. MALANG (Malware Analysis Generator) Registration Number: SW-15725/2022
   Description: The MALANG web application can scan any apps from the Google Play Store for malware analysis. The user has to enter only the app's name in the search bar, and the top 10 apps related to the name will be displayed in the dropdown list..

No of Research / consultancy / projects completed: 06 Rs: 0	No of Research / consultancy / projects on-going: Rs: 01	No of Research / consultancy / projects on applied as on date: Rs: 0

Details of Research / consultancy / projects:

Completed

1. Landscape Analysis for Online Child Trafficking and Online Child Sexual Exploitation (AY 2019-2020)
   Project Funded by: Children's Investment Fund and Foundation (CIFF)
   Project Fund: 65 Lakhs
2. COView: A Covid-19 Patient Management System for KEM Hospital and KEMH Covid-19 Patient LineList (Android Application Development) (AY 2020-2021)
   Project by: King Edward Memorial Hospital (KEM)
3. HRMS Josh A Human Resource Management System for Territorial Army (Kumaon Regiment) (AY 2018-2019)
4. Black Button: Pollution Data provider (AY 2016-2017)
   Contributing Organization: University of Mumbai and K.J.Somaiya College of Engineering (KJSCE)

On-going

1. Received research grant for Sustainability measurement of Blockchain Laboratory infrastructure
   Duration: 3 Years
   Grant Approval: 1 Cr
   Grant Utilization in 1st year: 24 Lakhs

Applied

2. NIL

IPR/ Copyrights

1. NIL

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered

Attended

1. FDP “AI for Sustainable Development” from 5th August 2024 to 9th August 2024, organized by VIIT, Pune

Organized

1. Organized ISTE-approved STTPs in the Department of Information Technology of K. J. Somaiya College of Engineering on "Secure and Sustainable Blockchain Development: Innovation for Next Web 3" from 1st July 2024 – 5th July 2024 along with Dr. Nilkamal More, Prof. Suchitra Patil, Khushi Khanchandani, Prof. Sagar Korde.
2. Organized ISTE-approved STTPs in the Department of Information Technology of K. J. Somaiya College of Engineering on "AI and ML - Enhanced Geospatial Analytics: Real-World Case Studies" from 8th July 2024 – 12th July 2024 along with Dr. Nilkamal More, Prof. Suchitra Patil, Prof. Sagar Korde, Dr. V. Venkatramanan.

Delivered

1. NA

Notable Key Scholastic Achievements	
1.	National-level finalist for problem specification by the National Technical Research Organisation

	(NTRO) for SIH2023, December 2023
2.	Winner of KAVACH 2023, a National Level Cyber Security Hackathon conducted by MoE's Innovation Cell, AICTE, along with the Bureau of Police Research and Development (BPR&D)(MHA) and Indian Cybercrime Coordination Centre (I4C)(MHA)
3.	National-level finalist in SIH2020 for problem specification by the National Crime Record Bureau (NCRB)
4.	Second Runner-up of Darkathon 2022, National Level Hackathon conducted by Narcotics Control Bureau (NCB)

Notable Positions and Responsibility	
1.	NA
2.	

Date: 05 / 10 / 2024 **Signature of Faculty Member**