

RESUME

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SUMMARY

- ❖ Ph.D. [Technology] in Information Technology from Thadomal Shahani Engineering College, Mumbai University, March 2017.
- ❖ First class M.E. (I.T.) from Vivekanad Educations Society’s Institute of Technology (V.E.S.I.T.), Chembur, Mumbai University.
- ❖ Currently working as Professor in Computer Engineering Department, Fr.CRCE, Bandra, Mumbai
- ❖ Approved Ph.D. Guide/Teacher (PG/ICD/2019-20/1956), M.E. Teacher (PG/ICD/201213/15391) of Mumbai University.
- ❖ More than 20 years of teaching experience with 16 years approved teaching experience of Mumbai University as Associate Professor 4 years T.A.A.S. (C.T.)/ICD/201920/13395 dated 14/06/2019, Assistant Professor (CONCOL/SA/502 of January 9, 2008) 12 years., more than five years teaching experience to P.G. level, M.E., and M.C.A.
- ❖ Computer engineering background with emphasis on Big Data Analytics, Data warehousing and mining, Cloud Computing, Deep learning, Operating System, E-commerce, Computer Programming, OOP, DBMS, and Distributed databases.
- ❖ Delivered Expert lectures on Cloud Computing for Ph. D. Research scholars at K. J. Somaiya College of Engineering, Mumbai.
- ❖ Published more than 25 papers in International journals and conferences, 10 articles in Scopus/UGC/AICTE indexed journal/Conference
- ❖ Filled a design patent with Application Ref Number-374640-001, cbr Filing Date25/11/2022 -Indian Patent Office, Article for Printing 3d parts using Electrochemical Deposition
- ❖ Filled an ordinary patent with Application Ref Number-202221070479, Filing Date07/12/2022 -Indian Patent Office, Article for FloodKnow: A AI based hybrid system for flood severity prediction based on leveraging both textual and visual features using deep neural networks.

- ❖ Published a patent with Application Ref Number-202241051449, Filing Date-08/09/2022 -Indian Patent Office, IoT and Artificial Intelligence based fruit recognition, calorie estimation and suggestion for healthy life using Deep learning algorithms
- ❖ Number of Citation received-62, h-index-4, i10index-1
- ❖ Reviewed the papers for the Scopus indexed journal of Elsevier, journal E-commerce research applications (E.C.R.A.)in 2016-17, International Conference on Advances in Computing, Communications and Informatics - ICACCI-2014, ICACCI-2015, ICACCI2016, ICAC3`17, ICAC3`19, ICAC3`21, ICAST and National Conference at L.T.C.E.
- ❖ Awards received – Vocational Excellence Award, Nation builder award by Rotary club, Most socially relevant PhD. Topic award from TSCE Group

EXPERIENCE SUMMARY

- ❖ **Presently working as Professor (from 25 Aug.2022) and HOD from 1 July,2022**
- ❖ Worked as Associate Prof. in Computer Engineering Department of Fr.C.R.C.E., Bandra, Mumbai from 1 April 2017.
- ❖ Worked as Assistant Prof. in Information Technology Department of F.R.C.R.C.E., Bandra, Mumbai from July 16, 2016 to March 30 2017.
- ❖ Worked as Assistant Prof. in L.T.C.E., Koparkhairane, Navi Mumbai from July 15 2006 to July 15 2016 (10years).
- ❖ Worked with R.A.I.T. Nerul, as a Lecturer from 1 Jan 2006 to July 14 2006.
- ❖ Worked with P.V.P.P. College of Engineering, Sion, Mumbai, as a Lecturer in Computer Engg. Dept for 1 Year.

Papers Published : UGC/scopus/AICTE approved Journals/Conferences

1. Xenus Gonsalves, Sujata Deshmukh, “Designing an Intelligent Chatbot for Educational Assistance”, International Conference on Intelligent Data Communication Technologies and Internet of Things, (IDCIoT 2023), 5th-7th January 2023
2. Sumit Kothari, Sujata Deshmukh, Samarth Mehta, "Comparison of Age, Gender and Ethnicity Prediction Using Traditional CNN and Transfer Learning", 13th IEEE International Conference on Computing, Communication And Networking Technologies (ICCCNT) 2022, October 3rd - 5th, 2022
3. Sujata Deshmukh, Bhushan Patil, Ketaki Joshi,Chinmay Gaonkar,Ms. Prerna Pallan,Sumedh Bhatkar, “A Novel Method For IOT Based Smart Traffic System”, Industrial Engineering Journal, Vol. XV & Issue No. 06 June – 2022-UGC approved Journal

4. S. Deshmukh, P. Rede, S. Sharma and S. Iyer, "Voice-Enabled Vision For The Visually Disabled," 2021 International Conference on Advances in Computing, Communication, and Control (ICAC3), 2021, pp. 1-6, doi: 10.1109/ICAC353642.2021.9697125-**Scopus indexed**
5. Sujata Deshmukh, Candida Noronha Gini Chacko & Lizel Fernandes Virtual E-mail Assistance for The Visually Impaired, IEEE Conference on Technologies for Future Cities, 8 th - 9 th October, 2021- **Scopus** indexing in process
6. K. Hariharan, A. Lobo and S. Deshmukh, "Hybrid Approach for Effective Disaster Management Using Twitter Data and Image-Based Analysis," 2021 IEEE International Conference on Communication information and Computing Technology (ICCICT), SPIT, Mumbai, 2021, pp. 1-6, doi: 10.1109/ICCICT50803.2021.9510029-**Scopus indexed**
7. Khasgiwala, Y., Castellino, D.T., Deshmukh, S., "A Decentralized Federated Learning Paradigm for Semantic Segmentation of Geospatial Data", Lecture Notes in Networks and Systemsthis link is disabled, 2022, 371, pp. 196–206- **Scopus indexed**
8. Dipali K Bhise, Bhushan T Patil, Vasim A Shaikh, Sujata P Deshmukh, "Investigating the microlubrication flow inside the nozzle using computational fluid dynamics", Materials Today: Elsevier Proceedings 2020--**Scopus indexed Journal**
9. Sujata Deshmukh, Bhushan Patil, Prashant Deshmukh, G. T. Thampi, "Exploring the factors to make E-Commerce and M-Commerce ubiquitous and pervasive to improve national productivity of India", **Scopus indexed International Journal of Productivity and Quality Management-** I.J.P.Q.M., Inder-Science Publication, Volume 28, Issue 4, Pages 457496, Inderscience Publishers, 2019.
10. Christi Pereira , Sujata Dekhmukh, "Virtual walk-through of stitched image using cylindrical projection", paper published for the IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - (ICRIEECE), July 27th- 28th, 2018.
11. Sujata Deshmukh, Nilima Patil, Surabhi, Surabhi Rotiwar, Jason Nunes, "Sentiment Analysis Of Marathi Language", International Journal of Research Publications in Engineering and Technology [IJRPET], Volume 3, Issue 6, Jun.-2017
12. Christi Pereira, Sujata Deshmukh, "An Improved Virtual Walkthrough from a 2D Stitched Image", International Journal of Recent Trends in Engineering & Research, vol. 3, Issue 9, Sept. 201, pg 1-5, DOI: 10.23883/IJRTER.2017.3422.QGI2I, 2017.
13. Tushar Meshram, Sujata Deshmukh, "Study of techniques for locating public transports using vehicle tracking systems ", International Journal of Latest Trends in Engineering and Technology, **Index Copernicus**, I.C.V. – 77.02/100, Index Copernicus, I.C.V. – 7.39/10, Volume 7 Issue 1 – May 16, Pages : 567-572, DOI : <http://dx.doi.org/10.21172/1.71.082>

14. Sujata Deshmukh, G.T. Thampi, "Public Policies to Facilitate Higher Penetration of ECommerce and M-Commerce in India for Higher Productivity", Journal of Productivity, N.P.C., Jan-Mar2016, Vol. 56 Issue 4, p332-337, citations received 1.-National productivity council – Govt. of India
15. Prashant Deshmukh, Sujata Deshmukh, G. T. Thampi, "Identification Of Cost And Quality Benefits On Implementation of ICT Based Practices In Indian SMES", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249-6890; ISSN(E): 2249-8001 Vol. 5, Issue 4, Aug 2015, 115-122-**Scopus indexed journal**
16. Sujata Deshmukh, G.T. Thampi, "Interpretive Structural Modeling to Improve National Productivity using E-Commerce and M-Commerce based Practices in Indian Context ", **Advanced Science Letters**, American Scientific Publishers , Volume 20, Numbers 10-12, October 2014, pp. 1766-1777(12), Impact Factor: 1.253, **Scopus indexed**, <https://doi.org/10.1166/asl.2014.5635>.
17. Sujata Deshmukh, G.T. Thampi, "Transformative Effect of E-Commerce and M-Commerce on National Productivity in India", **International Journal of Applied Engineering Research and Development**, ISSN (Online): 2250-1584, ISSN(Print): 2278-9383, Impact Factor(J.C.C.):1.6842, I.C. value:3.0, Apr. 2014. **citations received 1**.
18. Sujata P Deshmukh, Archana M Naware, "Mobile Money: M-payment System for India", **International Journal of Computer Science & Information Technologies**, Volume 5, Issue 2, pg 2672-2676, 2014, E-ISSN: 0975–9646, **citations received 5.- UGC listed till 2017, UGC approved Journal**
19. Sujata Deshmukh, G.T. Thampi, "Transformation from E-commerce to M-commerce in Indian Context", **I.J.C.S.I. International Journal of Computer Science Issues**, Vol. 10, Issue 4, No 2, July 2013, **with impact factor 0.242, citations received 33**, Proquest clarivate
20. Sujata Deshmukh, Archana Naware, "M-commerce security issues" **International Conference on System Modeling & Advancement in Research Trends (SMART)** organized at T.M.U., Moradabad, Sept.-2013
21. Sujata Deshmukh, G.T. Thampi, "E-commerce and M-commerce in India" **International conference on current trends in Management, Engineering, computer application and Technology-ICCTCMECAT, 2012**, Deogiri College, Aurangabad (23-25, Mar.2012) with **ISSN : 2249 – 7455, Vol.I, Issue 6(IX)**.
22. Sujata Deshmukh, Deepika Srivastva, "Designing S.I.P. Security Measures for the I.M.S. core Layer" **International conference on Electronics and communication Engineering ICECE-2011, Inter-science Research Network, Bangalore. (1st-2nd Oct, 2011) with ISBN : 978-9381583-04-3**
23. Sujata Deshmukh, G.T. Thampi, "Mobile Commerce: Next Generation E-Commerce in India"

International conference on frontiers of Computer science ICFoCS-12 at IISc, Bangalore.
(7th -9th Aug., 2012) .

24. Sujata Deshmukh, G.T. Thampi, “E-commerce in India: challenges, Issues, Future”, **International Conference on Role of Management and Technology in shaping India as a developed Nation by 2020**”, T.M.U., Moradabad (29th -30, Apr 2012) with **ISBN 978-818456-596-4**.
25. G.T. Bamnote, Jyoti Sawant, Sujata Deshmukh, “Performance issues of Real-Time Kernels”, **International conference on Counters of Computing Technology- THINQUEST-10**”, Babasaheb Gawde Institute of Technology, Mumbai (13,14 Mar.-10), Springer
26. Jyoti Sawant, Sujata Deshmukh, “RTLlinux- A Real-time Operating System”, **International Journal for Engineering Research & Industrial Applications(I.J.E.R.I.A.)**, ISSN 09741518, Vol.1, no. IV(2008) pp 83-98
27. Sujata Deshmukh, Amurto Basu, Sarvesh Kulkarni, Shubham Mishra, Prashant Deshmukh, Bhushan Patil,” Disaster Damage Assessment of Satellite Images Using Transfer Learning With Fine Tuning” , Journal of Engineering, Project, and Production Management, 2022-**Scopus indexed [Accepted through RGIT ICEI4.0]**
28. V. Rao, B.T. Patil, V Shaikh, D.S.S Sudhakar, Sujata Deshmukh , “Investigation of Surface Roughness and Cutting Temperature Parameters in Turning AISI 4340 Steel using MQL Mist Technique with Nano-Fluids (n-Al₂O₃, n-MoS₂ & n-GrapheneJ mixed in Edible Vegetable Coconut Oils”, Journal of Engineering, Project, and Production Management. 2022-**Scopus indexed [Accepted through RGIT ICEI4.0]**
29. Dipali Bhise, B.T. Patil, V Shaikh, D.S.S Sudhakar, Sujata Deshmukh, “ Comparative Economic Analysis and Investigation of Micro Lubrication Over Conventional Cooling in manufacturing“Journal of Engineering, Project, and Production Management”. 2022-**Scopus indexed [Accepted through RGIT ICEI4.0]**
30. Jyoti Sawant, Sujata Deshmukh, “Study Of The Performance Issues In RTOS ” **National conference on Embedded Control, Computing, & Communication– NCECCube-2007**, International Institute of Information Technology-I²IT, Pune (Sept.19-21,2007)
31. Sujata Deshmukh, “Distributed Search For Peer To Networks” **National conference – NCICT2007**, New Horizons in Technology, D. J. Sangavi College of Engg., Vile Parle, Mumbai.(March 1-3,2007)

Reviewer, Session chair, Co-Chair

1. Reviewed the papers for International Conference on Advances in Computing, Communications and Informatics - ICACCI-2014, ICACCI-2015, ICAC317, ICAC3`19.

2. Session chair for the conference ICAC3-17, ICAC3`19, D.M.C.E. international conference ICATE19, National level paper presentations at M.P.M.F.P, LTCE.

Employer's Details

1) Father Conceicao Rodrigues College of Engineering, Bandra, Mumbai

Duration : 16 July 2016 – till date

Designation : Associate Professor

Subjects Taught : B.D.A., Cloud Computing, Microprocessors, Distributed Database, D.W.M, DBMS, Python Programming

UGC approval NO: TAAS/(CT)/ICD/2019-20/13395

Responsibilities Handled

1. working as Associate professor and HOD-from 1July 2022
2. Department Program coordinator for N.B.A. from June 2019 to June 2022
3. Co-chair for ICAC3`19, ICAC3`21 IEEE conference
4. Coordinator for 5 days Advanced Deep learning workshop, 3 days Deep learning workshop, 5 days Block chain workshop
5. I.P.R. cell Departmental coordinator from July 2016 to till date
6. Publicity committee member of ICAC3-17 7. Class teacher for T.E. Computer Sem 6, 2017-18
8. Reviewer for ICAC3-17, ICAC3`19.
9. Rotaract Club In-charge from July 17 to till date.
10. NBA-Budget committee member, Lab In-charge DBMS lab
11. Prepared Lab Manual for CC, DBMS, D.W.M., and B.D.A.

2) Lokmanya Tilak College of Engineering, Koperkhairane, Navi Mumbai

Duration : July 15, 2006 – July 15, 2016

Designation : Assistant Professor

Subjects Taught : CP-I, CP-II, O.S., Microprocessors, CSS, E-Commerce, DC, PDC

UGC Approval no : CONCOL/SA/502 of January 9 2008

Responsibilities Handled

1. Result analysis In-charge and M.E. Time table in-charge from 2013 to till date
2. Worked as a reviewer for National conference and national level project exhibition.
3. Departmental coordinator for technical function TECH-ZEPHYR
4. Time table in-charge of the department from 2010-2012
5. Internet In-charge of College from Aug 2006 till Aug 2009
6. Parent-Teacher meet committee member in 2007
7. Member of Detailed Project Report Committee for New College in Feb 2007
8. Team member of the Accreditation Committee
9. Result Analysis In-charge for the academic Year 2006-07
10. Prepared Lab Manual for Microprocessors And Operating System with Unix
11. Lab setup-Installation of JAVA on Linux

3) Ramrao Adik Institute of Technology, Nerul, Navi Mumbai

Duration : Jan 2006 – 15 Jun 2006

Designation : Lecturer

Subjects Taught : Computer Programming -II, Datawarehousing & Mining

Responsibilities Handled: Sun Solaris Lab In-charge, Internet In-charge

4) S.B.M. ,Vile Parle, Mumbai

Duration : Jun 2005 - Jan 2006

Designation : System Analyst

Project Handled : Automation and Management of Information System

Team members : 1

Software : V.B., Access, Data reports **Responsibilities**

Handled

- Database Design & software design
- Development & Testing, Implementation

5) Nuclear Power Corporation of India Ltd., Anu-Shaktinagar, Mumbai. (N.P.C.I.L.)

Duration : Jun 2004 - Jun 2005

Designation : System Trainee

Project Handled : Centralized Operating Plant Information Mining System.

(C.O.P.I.M.S.) Team

members : 1
Software : PHP, MYSQL, BASH under Linux.

6) Padamshri Vasantdada Patil College of Engineering, Sion, Mumbai

Duration : Aug 1999 – June 2000
Designation : Lecturer
Subjects Taught : Computer Programming-I, Computer Programming -II

QUALIFICATIONS

1. **Ph. D. (Technology) in Information Technology** from Thadomal Shahani Engineering College, Mumbai University, in March 2017
2. **M.E.(Information Technology) with First Class (62%), Mumbai University**, in year 2005 from Swami Vivekananda Educational Society `s Institute of Technology, Chembur, Mumbai
3. **B.E. (Computer Science & Engineering.)** with Percentage (58%) in the year 1998 from College of Engineering. Badnera, Amravati University.
4. **H.S.C. with First Class (73%)** in the year 1992 from Janata Junior College , Shendurjana Ghat, Nagpur Board.
5. **S.S.C with First Class with Distinction (83%)** in the year 1990 from Janata Girl's High School , Shendurjana Ghat, Amravati Board

PROJECT EXPERIENCE

1) Project Title : **Centralized Operating Plant Information Mining System**
Organization : **Nuclear Power Corporation of India Ltd. Mumbai. (N.P.C. I. L.)**
Designation : System Analysts
Team members : 1
Duration : July 2004 to June 2005 (1 year).
Software : PHP, MYSQL, BASH under Linux.

Description : C.O.P.I.M.S. is a data mining system that is developed for N.P.C.I.L. for monitoring and calculating Nuclear Power Plant (NPP) states. It is an intranet application. The objective of designing and commissioning the C.O.P.I.M.S. is to get online access to the states of all NPP in India. The goal of this project is to design and implement the Plant Data Mining Engine. The Plant Data Mining engine runs a set of SQL statements. These SQL statements describe the rules which are useful to determine NPP States. This Plant Data Mining Engine scans data at regular intervals (15 min) and makes entries in the plant database. Users can find out NPP States at any time by using (Dynamic) Web-Based User Interface. The administrator sends the change of state by SMS to select a group of O&M engineers by using SMS generator system for information.

The results generated by this system are used for further decision making.

2) Project Title : **Executive Information System for Administration.**
Organization : **National Informatics Center (NIC), Amravati**
Designation : Programmer
Team members : 4
Duration : Nov-1997 to march –1998(6 months) **Software**
: UNIX, Oracle6.0, Developers 2000.

Description : Software developed to computerize the system for revenue administration. The system evaluates and monitors various schemes as well as to make use of available information as & when needed. In evaluation, a newly designed system has given positive feedback & hence it is decided to adopt computerization on this topic. The results are as follows.

District Collectorate is the key department for district administrative revenue activity. In order to pinpoint & monitor each & every activity, it is most essential that maximum information need to be computerized, which will ultimately provide the information required within time & that to maximum accuracy.

3) Ph. D Topic : **“Models for making E-Commerce and M-Commerce Pervasive and Ubiquitous to improve National Productivity in India”**

Organization : **Thadomal Sahani C.O.E., Bandra, Mumbai University.**

Duration : Oct 2012 to 2 Feb 2017

Area : Machine learning algorithms in E-commerce

Description : Internet and computing devices more accessible to people in developing countries. Electronic Commerce (E.C.) is the Internet-based tool for doing global business to get productivity benefits. Further, mobile commerce (MC) provided many additional context dimensions to online business. This has transformed the business environment into a technology-enabled business and has the potential to connect online consumers on a massive scale. But the percentage of online commerce is very low as compared to total commerce transactions, and it shows that it is not ubiquitous in India. EC-MC based practices provide many productivity benefits to organizations and consumers if implemented judiciously, carefully, and considering prior experiences of implementation by organizations.

Furthermore, many factors can make EC-MC based practices ubiquitous and pervasive to achieve productivity benefits. Hence, the post-implementation and usage studies become inevitable to identify and then understand the impact of various factors on productivity gains through EC-MC based systems, particularly the input and output benefits. Earlier, due to low penetration of I.C.T., high initial and running cost required for I.C.T. infrastructure, EC-MC practice was limited to large firms only and for B2B type. But due to the high penetration of I.C.T. (computing devices and Internet), higher investor's interest, policy framework progress, lower initial and running cost over the years, many organizations in India are doing business online.

Furthermore, the Digital India arena motivates its implementation, although it is in the transition phase, in all variants of organization in India. Previous work has addressed the challenges and issues of the implementation of EC-MC based practices in the global, national, and local contexts.

However, typical identification of the factors and framing the generalized templates for making ECMC based system ubiquitous for productivity gain still need to be attributed.

This research presents the identification of factors for making EC-MC based practice ubiquitous and investigation of productivity gains through input and output benefits on the fly. The research principally first presents the current status of EC-MC based practice in terms of policy, applications, technology, and online usage behavior. Literature review and current status helped to identify the factors impacting EC-MC based system. Then the interpretive structural model technique is used to model a large number of factors to find its impact on national productivity. Then Mic-Mac analysis technique used to group the variables into different groups.

Further, it identifies the conceptual relationship between factors and productivity gains. Thus, research findings quantify the effects of factors so that organizations can set priorities of factors to be emphasized depending upon organizational priorities of productivity gains. For this goal, a relevant research model is developed to test various hypothesized paths showing the relationship between various factors and productivity gains achieved through EC-MC based practices. The significant contribution of this research brings out the guideline for identifying the set of productivity input and output benefits. The developed avenues and aim for investigations into ECMC based practices implementation and usage for productivity gains is as follows:

- i. Study of implementation, usage, and factors of EC-MC based system through literature, government policies, T.R.A.I., R.B.I., online reports, and interviews with stakeholders
- ii. Identification of factors impacting on EC-MC based practices to improve national productivity (N.P.) and building a model using I.S.M.
- iii. Identifying significant differences in productivity gains; input and output gains due to EC-MC based practices
- iv. To identify various constructs for measurement of productivity improvements and factors making EC-MC based practice ubiquitous
- v. Development of a conceptual model for organizations can set priorities of factors to be emphasized depending upon organizational priorities of productivity gains of modern commerce tool i.e. EC-MC based system
- vi. Testing of the conceptual model through various hypothesized paths for identifying the relationship of input and output benefits with respect to various factors making EC-MC based practices omnipresent
- vii. Development of template and process guidelines for EC-MC based practices from Indian organization and consumer perspective
- viii. Validation of the developed template and process guidelines

TECHNICAL SKILLS

Hardware Platform	: Digital Pentium PC, Pentium Workstation, Sun Solaris
Operating System	: Windows 95, 98, 2000, UNIX, MS_DOS 6.22, Linux
Programming Languages	: C, C++, SQL, JAVA, HTML, BASH, PHP, ALP, Python
Tools	: Developers 2000(Forms4.5, Reports 2.5, Graph 2.5)
RDBMS	: Oracle 7.3, MS-ACCESS, MYSQL, Postgresql
Packages	: Ms-Office
Front End	: VB 6.0
Web technology	: Java Servlets, Java Web Server, PHP

PERSONAL INFORMATION :

Date of Birth	:	31-07-1975
Languages	:	Marathi, English, Hindi.
Marital Status	:	Married
Interest	:	Reading Marathi Novels, Music Listening
Major Strengths	:	Hard-working, Quick decision making, Can work in Team
Major Weaknesses	:	Every thing to be at once, Not Very Social
Date and Place	:	31 July 2022, Mumbai

(Dr. Mrs. Sujata Prashant Deshmukh)