

Manisha Satish Divate

(Ph.D., M.Phil., M.C.A., M.C.M., B.E.-Computers)

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With diverse experience in teaching and learning, the capability to formulate and implement initiatives for academic goals, self-motivated and team player, willing to achieve a good research career to build a positive learning community.

• **Personal Information**

Date of Birth: 1st September 1979

Address: A-305, Orchid, Valley of Flowers, Thakur Village, Kandivali (East), Mumbai-400101.

• **Current Position**

I have 23 years of teaching experience and currently working as an **Assistant Professor** at the **Department of Information Technology, SVKM's Usha Pravin Gandhi College of Arts, Science and Commerce, Vile Parle.**

As an Assistant Professor, I have taught various subjects such as Natural Language Processing, Soft Computing, Embedded Systems, Data mining and Data Warehousing, Artificial Intelligence, Robotics, and Java Programming to a Master's program in Information Technology, Computer Science (C.S.), Data Science (D.S.) and Artificial Intelligence and Data Science (AI & DS). Undergraduate level, I have taught Embedded Systems, Networking, Artificial Intelligence subjects.

• **Patents**

1. **Granted:** Manisha Divate, Ambuja Salgaonkar, "*Automatic Question Quality Enhancement System (AQQES) FOR ILL-FORMED QUESTIONS*", IPI Application no. 201821011660.
2. **Provisional Application:** Manisha Divate, "*A METHOD FOR DETERMINATION OF CITATION QUALITY, CLOSENESS BY AN NLP TOOL FOR CITATIONS-REFERENCES*", IPI Provisional Application no. 202521070434
3. **Application Filed:** Manisha Divate, Krishna Pathak, "*A System and Method for Regulating Effective Neural Network Capacity via Sparsity-Induced Control and R-SICR Generalization Bounding*", IPI Application no. 202621047996.

Research activities

I am an active researcher in AI and Natural Language Processing. I have researched various tools such as Stanford parser, NLP tagger, and regex expression, for the Automatic Question Quality Enhancer (AQQE) system to enhance the quality of the questions. A **Linear Regression**-based model is used to compute the score for the questions. The said work is filed for a **Patent**. I have developed a prototype model in Language translation, transliteration, and Morph-analysis of low-resource language -Marathi, and sentiment analysis.

I worked as a conference **Convenor** for the **International Conference on Emerging Trends in Digital Technologies** in 2022-23 and the **Co-Convenor** of the ICETDT-2024.

Research project of MSC IT “**Hindi Grammar Checker**” won the **Second Rank** in Final round of **19th Aavishkar Inter collegiate/Institute/ Department Research Convention**

• Research Paper presented and Published

1. Presented and published the paper titled “**From Dense to Sparse: Sparsity-Induced Capacity Regularization for Improved Generalization in Neural Networks**” in the BRAINCON 2026
2. Submitted the research paper titled “**Integrating Social Media Sentiment with Drought Perception Studies: A Comparative Evaluation of Sentiment Analysis Models in Marathwada Region, India**” to a Journal **Social Indicators Research**, An International and Interdisciplinary Journal for Quality-of-Life Measurement
3. Published the paper titled “**Hybrid Morph-Analysis model for Marathi**”, in the proceedings of the 23rd International Conference on Intelligent Systems Design and Applications (ISDA’23) published by Springer Nature.
4. Published the paper titled “**Technology Acceptance Model for Incidents Monitoring through Cloud Based Platforms**” with co-author, Krishna Singh- M.Sc. student, in UGC Care listed Journal.
5. Presented the paper titled “**KTM-POP: Transliteration of K-POP Lyrics to Marathi**” presented in 9th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2021) in Springer (2021) **indexed by Scopus**.
6. Published the Paper titled “**Sentiment analysis of Marathi news using LSTM**” (ISSN 2511-2112) in International Journal of Information Technology, Springer (2020) **indexed by Scopus with an impact factor of 1.406**
7. Paper titled “**Use of Machine Learning Techniques in Digital Forensic for File Type Classification**” presented in National Conference on Emerging Trends in Digital Technologies 2020 (ETDT-2020) Organized by UPG College, Vile Parle
8. Paper titled “**Online Voting System Implementation in India: Assessment and Security Issues**” presented as co-author in National Conference on Emerging Trends in Digital Technologies 2020 (ETDT-2020) Organized by UPG College, Vile Parle
9. Paper titled “**Good Quality Question Generation for Academic Support**” published in AISC, Springer (2017) **indexed by Scopus**.

10. Paper titled **“A Review of Automatic Question Generation Approaches and Evaluation Techniques”** in Journal of Current Sciences (Nov 2017) **with 0.883 impact factor and indexed by Scopus and Web of Science.**
11. Presented a Technical paper on **“Continuous Engagement and Evaluation of a Learner in ODL”**, in the International Conference on ICDE International Conference, at Symbiosis Centre for Distance Learning, Pune, on 11-14 March 2017.
12. Presented a Technical paper on **“Weka for Ranking of Question”** in the UGC Sponsored, National Conference on Confluence of Emerging Trends in Multidisciplinary Research Areas to Mathematics (CETMRAM – 2016), on 19-20 Dec 2016 at Kirti College Mumbai.
13. Presented a Technical paper on **“Ill-Formed to Well-Formed Question Generator”** in the Second **IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE-2016)**, and **published in IEEE Transactions (Scopus Indexed)**, Poornima College of Engineering & Poornima University, Jaipur, on 23-25, December – 2016.
14. Presented a Technical paper on **“Ranking Model with Reduced Feature Set for Automated Question Generation System”** in the **International Conference on Natural Language Processing (ICON’15)** (available on ACL Web-anthology) held in IIITM-K Trivandrum, on 11-14 Dec 2015.
15. Presented a Poster titled **“Performance Improvement of AQG by Using Existing NLP Tools”** in the National Seminar on Natural Language Processing and Image Processing (NLPIP-2015) at the School of Computer Sciences, North Maharashtra University, Jalgaon (14-15th March 2015).
16. Presented a Technical paper on **“Information Communication Technology based Framework for Higher Education in Rural Areas”** in the International Conference on Extension Education & Rural Communities (ICERC-2013) conducted by a joint venture of the University of Mumbai, Department of Lifelong Learning and Extension, ICSSR and Amlani College of Com. & Eco. & Nathwani College of Arts, Vile Parle on 6-7 April 2013.
17. Presented Technical Paper on **‘Data Preprocessing in Web Usage Mining’ at National Conference on “Emerging Trends in Information Technology 2010”** held in Indira Institute of Management, Pune (MCA) on 29-30 April 2010 with ISBN-978-93-80043-99-9.

Books:

1. Dr Smruti Nanavaty, Dr Neelam Naik, Dr Manisha Divate, Machine Learning, Published by Techknowledge, ISBN- 978-93-5563-723-9 (Chapters from 8-13)
2. Vipul’s B.Sc. Computer Science Series, ‘Java Programming’, by Manisha Divate, Vipul Publication, 2009, pg 1-280
3. Editor for preparing Self Learning Material (SLM) in the course T.Y.B.Sc. Computer Science Dot Net Technology’ in 2018 for Institute of Open and Distance Learning, University of Mumbai.

4. Course Writer for preparing Self Learning Material (SLM) in the course S.Y.B.Sc. Computer Science Semester III for Core Java, Unit III (4 chapters), in 2022 for Institute of Open and Distance Learning, University of Mumbai

- **Co-curricular:**

Completed Akhil Bhartiya Gandharva Vidyalaya's Vocal Music (Hindustani classical) Prathama exam in 2020.

- **Education**

2019	Qualified UGC -NET & UGC-SET for the Assistant Professor in Computer Science and Application
2017	Ph.D. in Computer Science from the Department of Computer Science University of Mumbai in Natural Language Processing .
2013	M.C.A from Sikkim Manipal University
2009	M.Phil. in Computer Science from Madurai Kamraj University, Madurai in the domain of Web Mining .
2005	Master's Degree in Computer Management (MCM) from Pune University
2001	B.E. in Computers from Datta Meghe College of Engineering, Mumbai University
1997	H.S.C from Mumbai Board
1995	S.S.C from Mumbai Board

- **Professional Experience (23 years)**

2019-Till date	Assistant Professor at the Department of Information Technology, Svkm's Usha Pravin Gandhi College of Arts, Science and Commerce, Vile Parle
2018- 2019	Assistant Professor, Department of Computer Science, University of Mumbai , Kalina, Vidyanagari.
2016-2018	Assistant Professor at Institute of Distance and Open Learning (IDOL), University of Mumbai, Kalina, Vidyanagari.
Jan 2016- May 2016	Course Coordinator for Computer Science at Institute of Distance and Open Learning (IDOL), University of Mumbai, Kalina, Vidyanagari.
2014-2015	Research Fellow at the Department of Computer Science University of Mumbai, Kalina

- 2006-2014 Assistant Professor at **Patkar Varde College**, Goregaon, Mumbai
Course coordinator for Junior College Vocational Course (Additional Charge)
- 2005-2006 Assistant Professor at **SIWS College**, Wadala
- 2002-2005 Assistant Professor at **RKT College**, UlhasNagar.

- **Member of BoS**

- Hon. V.C. Nominee member for D.E Society's Kirti Doongursee College of Arts, Science and Commerce, Dadar(W) for the Subject -Computer Science, from 2025
- Hon. V.C. Nominee member for Thakur College of Arts, Science and Commerce, Kandivali, for the subject M.Com. in E-commerce from 2023
- Hon. V.C. Nominee member for B.K. Birla College of Arts, Science, and Commerce, Kalyan, Thane-421 304 for the subject Information Technology from 2022
- Hon. V.C. Nominee member for D.E Society's Kirti Doongursee College of Arts, Science and Commerce, Dadar(W) for the Subject -Computer Science, from 2022
- Hon. V.C. Nominee member for Jai Hind College for the B.Sc. I.T. program from Nov-2021
- BoS member at Dr Homi Bhabha state University for Mumbai B.Sc. I.T., from 2018-2021
- BoS member at Saint Meera College for Girls, Pune, for B.Sc. I.T and M.Sc. Computer Science programs from 2019-2022

- **Invited Talk**

- 16th Feb 2026 Invited as a Resource Person for online four-week UGC Sponsored Faculty Induction Program (Guru Dakshata) – IX' organized by the **UGC Malaviya Mission Teacher Training Centre, Sant Gadge Baba Amravati University, Amravati, from 17th January to 17th February 2026.**
- 2nd Aug 2024 Invited as a guest speaker for short Term Course in “**Artificial Intelligence (Multidisciplinary)**” under RUSA organized by **UGC Madan Mohan Malaviya Teacher Training Centre (MMTTC)** earlier known as Human Resource Development Centre, University of Mumbai on 2nd Aug 2024
- 4th May 2024 Invited as a resource person at Vidyalankar School of Information Technology, for the TechNext 24 Symposium on **NLP and Industrial/Research Applications,**
- 23rd Dec 2023 Invited as a guest speaker for the **project guidance** lecture at 'MVM College, Andheri'
- 16th Dec 2023 Invited as a guest speaker for an expert talk session on “**Scientific Research Writing**”

4 th Nov 2023	Invited to the live telecasted (6.30 PM) TV Program on National Doordarshan Sahyadri Vahini “आत्मनिर्भर भारत”, the talk on AI and AI in Security.
Feb 2022:	Talk on “ Natural Language Processing and its application in Python ” at R.J. College, Ghatkopar, Mumbai for M.Sc. Data Science Program.
Oct 2021	National Seminar on “ Research Paper Writing and Literature Review process in Computer Science ” at Dept of Computer Science, KBP college, Vashi, Navi Mumbai
Apr 2021	National Seminar on “ Research Article Writing ” at Nirmala Memorial Foundation College of Commerce and Science, Kandivali, Mumbai
Jan 2019	Talk on “ Python Programming support for Imperative, Functional and Object-Oriented Programming language” at Kaveri College of Arts, Science and Commerce, two days State level Workshop on Python Programming, Pune
Dec 2018	Talk on “ Machine Learning ” at Thakur College of Science
Jun 2016	Talk on the topic “ ICT-A catalyst in Education ” for a refresher Course on “Information and communication technology: ICT in the 21st Century” organized by Department of Computer Science, University of Mumbai, Vidyanagari.
Dec 2015	Expert lecture on Research Methodology for the Ph. D. course works in Dept. of Communication & Journalism, University of Mumbai, Vidyanagar
Sep 2009	Invited as Resource person for Setting and Conducting Practicals for M.Sc. I.T. Part II for the subject of Java Technology in Vaze Kelkar College
Jan 2006	Resource person for Refresher Course in Commerce under the aegis of UGC –Academic Staff College, University of Mumbai for the teachers of Degree College. Conducted the session on “Current Trends in Information Technology”

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