

Dr. Seema Wazarkar

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Career Objective

To work in a growing organization and looking forward for an opportunity where I can contribute to the organizational success and my personal improvement in the field of research and to be honest towards the organization.

Educational Qualification and Other : Ph.D. (Computer Science and Engineering, **National Institute of Technology Goa**),
M. Tech. (Computer Science and Technology),
B. E. (Information Technology),
GATE 2012-Qualified.

Degree	College	University	Year	Percentage/ CGPA
PhD (Computer Science and Engineering)	National Institute of Technology Goa. (Institute of National Importance)	National Institute of Technology, Goa	2019	Awarded
M. Tech. (Computer Science and Technology)	Department of Technology, Shivaji University, Kolhapur. (State Government Institute)	Shivaji University, Kolhapur	2014	8.48 (1st Rank)
B. E. (Information Technology)	D. Y. Patil College of Engg. & Tech. Kolhapur.	Shivaji University, Kolhapur	2012	68.67%
H.S.C (12 th)	Jawahar Navodaya Vidyalaya, Satara.	C.B.S.E.	2008	71.6%
S.S.C (10 th)	Jawahar Navodaya Vidyalaya, Satara.	C.B.S.E.	2006	85%

Experience: Teaching - 4 years, Research – 4 years approx., Total: 8 Years (approx.)

- Currently working as Assistant Professor in Computer Science Department, Thapar Institute of Engineering and Technology, Patiala from September 2021-till date.
- Worked as Assistant Professor in CSIT, Artificial Intelligence Machine Learning Department, Symbiosis Institute of Technology, Pune, Symbiosis International University, Pune from August 2020 to September 2021.
- Worked as Assistant Professor in Department of Computer Science and Engineering, School of Engineering, Maharashtra Institute of Technology Art Design and Technology University, Pune from June 2019 to June 2020.
- Research Scholar on project social image mining for fashion analysis at National Institute of Technology, Goa from July 2015 – September 2019. (Institute of National Importance)
- Worked as Assistant Professor in Department of Computer Science and Engineering, Kolhapur Institute of Technology's College of Engineering, Kolhapur from July 2014 to May 2015.
- Worked as Teaching Assistant in Department of Technology, Shivaji University, Kolhapur from July 2012 to June 2014. (State Government University)

Area of research work: (Major implementations using Python)

- Machine learning
- Computer Vision
- Social Image Mining
- Multimodal Analysis

Publications: Google Scholar link: <https://scholar.google.co.in/citations?user=s-9dTVkAAAAJ&hl=en>

Journal: 10

1. Seema Wazarkar, Bettahally N. Keshavamurthy, "Social Image Mining for Fashion Analysis and Forecasting," **Applied Soft Computing**, 95, July 2020, Elsevier, (SCIE, IF: 5.472).
2. Seema Wazarkar, Bettahally N. Keshavamurthy, "A Survey on Image Data Analysis through Clustering Techniques for Real World Applications," **Journal of Visual Communication and Image Representation**, 55: 596-626, August 2018, Elsevier, (SCIE, IF: 2.26).
3. Seema Wazarkar, Bettahally N. Keshavamurthy, "Fashion Image Classification using Matching Points with Linear Convolution," **Journal of Multimedia Tools and Applications**, 77(19): 1-18, March 2018, Springer, (SCIE, IF: 2.1).
4. Seema Wazarkar, Bettahally N. Keshavamurthy, Ahsan Hussain, "Probabilistic Classifier for Fashion Image Grouping using Multi-layer Feature Extraction

- Model,” **Journal of Web Services Research**, 15(2): 89-104, April 2018, IGI Global, (SCIE, IF: 0.667).
5. Seema Wazarkar, Bettahally N. Keshavamurthy, “A Soft Clustering Method with Layered Feature Extraction for Social Image Mining,” **Journal of Multimedia Tools and Applications**, 78:20333–20360 Feb 2019, **Springer**, (SCIE, IF: 2.1).
 6. Seema Wazarkar, Bettahally N. Keshavamurthy, Ahsan Hussain, “Region-based Segmentation of Social Images Using Soft KNN Algorithm,” **Procedia Computer Science** 125: 93-98 2018, **Elsevier**, (Scopus).
 7. Ahsan Hussain, Bettahally N. Keshavamurthy, **Seema Wazarkar**, “A Novel Multi-Layer Classification Ensemble Approach for Location Prediction of Social Users,” **Journal of Web Services Research**, 16(2):47-65, 2019, IGI Global, (SCIE, IF: 0.667).
 8. Seema Wazarkar, Shruti Patil, Satish Kumar, “A Bibliometric Survey of Fashion Analysis using Artificial Intelligence Intelligence,” *Library Philosophy and Practice*, 2020, (SCOPUS)
 9. Vaibhav Kadam, Satish Kumar, Arunkumar Bongale, Seema Wazarkar, Pooja Kamat, Shruti Patil, “Enhancing Surface Fault Detection Using Machine Learning for 3D Printed Products,” *Applied System Innovation*, 4(2):34, 2021, MDPI, (SCOPUS, ESCI)
 10. Ajit Dhanawade, Seema Wazarkar, Shailendra Kumar, “Erosion Model for Abrasive Water Jet Machining of Composite Materials”, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 44(268), 2022, Springer (SCIE, IF: 2.22)

Conferences: 11

1. Muskan Garg, **Seema Wazarkar**, Muskaan Singh and Ondřej Bojar, “Multimodality for NLP-Centered Applications: Resources, Advances and Frontiers”, *Language Resources and Evaluation Conference (LREC)*, 2022 at Marseille, France, 6837–6847.
2. Seema Wazarkar, Bettahally N. Keshavamurthy, Evander Darius Sequeira, “Socio-Fashion Dataset: A Numerical Data Generated using Fashion-related Social Images”, *International Conference on Hybrid Intelligent Systems*, 2022, LNNS, vol. 647, 350-356.
3. Seema Wazarkar, Shruti Patil, Ketan Kotecha, Nidhi Kalra, “Social Image Content Analysis for Fashion using Deep Learning”, *IEEE World Conference on Applied Intelligence and Computing (AIC 2022)*, (Accepted)
4. Seema Wazarkar, Bettahally N. Keshavamurthy, “Feature Extraction Model for Social Images,” *International Conference on Smart Computing and Informatics at Visakhapatnam on 3rd-4th March 2017*. Smart Innovation, Systems and Technologies book series, **Springer** 2018, vol. 77, pp. 669-677.

5. Seema Wazarkar, Bettahally N. Keshavamurthy, Shitala Prasad, "Semi-supervised Model for Feature Extraction and Classification of Fashion Images," 26th International Conference on Artificial Neural Networks at Alghero (Italy) on 11th – 15th September 2017, Lecture Notes in Computer Science (LNCS), **Springer** 2017, vol. 10614, pp. 786-787.
6. Ahsan Hussain, Bettahally N. Keshavamurthy, Seema Wazarkar, "An Efficient Approach for Classifying Social Network Events using Convolution Neural Networks," International Conference on Data and Information Sciences at Amarkantak on 17th – 18th November 2017.
7. Bettahally N. Keshavamurthy, Shashank Prakash Srivastava, Jaseel Haris, Ankush Kumar, and Seema Wazarkar, "Sentiment Analysis of Sub-Events extracted out of an Event using Word2vec", 18th **IEEE** International Conference on Advanced Learning Technologies (ICALT), at **IIT Bombay** on 9th -13th July 2018, pp. 444-448.
8. Seema Wazarkar, Bettahally N. Keshavamurthy, Amrita Manjrekar, "A Review of Hierarchical Fuzzy Text Clustering," 9th **IEEE** International Conference on Advanced Computing at Chennai on 14th – 16th December 2017, pp. 516-519.
9. Seema Wazarkar, Amrita Manjrekar, "HFRECCA for Clustering of Text Data from Travel Guide Articles", **IEEE** International Conference on Advances in Computing, Communications and Informatics (ICACCI) at Greater Noida, Delhi on 24th -27th September 2014, pp. 1486-1489.
10. Seema Wazarkar, Amrita Manjrekar, "Hierarchical Fuzzy Clustering Algorithm for Clustering Text Data in Article", **IEEE's** International Conferences for Convergence of Technology (I2CT) at Pune on 6th - 8th April 2014, pp. 142-147.
11. Seema Wazarkar, Amrita Manjrekar, "Text Clustering Using HFRECCA and Rough K-means Clustering Algorithm", International Conference on Advances in Computer Engineering and Applications at Ghaziabad, Delhi on 15th February 2014.

Book Chapters: 01

1. Ajit Dhanawade, **Seema Wazarkar**, Vishal Naranje, "Intelligent Machining", in "Industry 4.0 in Small and Medium-Sized Enterprises (SMEs): Opportunities, Challenges, and Solutions", CRC Press, Taylor and Francis Group, 2021.

Projects Undertaken:

1. Social image mining for fashion analysis
2. Fashion recommendation
3. Federated learning for credit score prediction/heart disease prediction
4. Image processing for dental health care
5. **Federated learning for prediction of cardiovascular disease in old age people (Seed Grant of 5,90,000 INR from TIET Patiala)**
6. Multimodal analysis for hateful meme detection

Expert Talks: 04

1. Expert Session on “Recent Trends in AIML”, at Symbiosis Institute of Technology, Pune, Symbiosis International University, Pune, June 2021.
2. Panel Discussion on Specializations in Computer Science for Diploma Students, participated as AIML Expert June 2021.
3. Guest Session for “GATE” aspiring students at Department of Technology, Shivaji University, Kolhapur, Jan 2021.
4. Speaker for Virtual Faculty Development Program on “Introduction to Machine Learning using Python” at Maharashtra Institute of Technology Art Design and Technology University, Pune, May 2020.

Editorial Duties: As Referee/Reviewer

1. IEEE Access Journal
2. International Journal of Web Services Research, IGI Global.

Workshop/STTP/FDP:

- Organized more than 5 workshops/FDPs and many industry expert sessions.
- On regular basis attend different workshops, conferences and STTPs on recent technologies (data science, python, virtual reality, online training tools and techniques, etc.) for self-devolvement.

Personal Information

Date of birth	: 24 th November 1989
Gender	: Female
Postal / Permanent Address	: A/P- Shenoli, Tal- Karad, Dist- Satara, Maharashtra, India- 415110.
Languages Known	: English, Hindi, and Marathi.
Nationality	: Indian.