

Tanvir H. Sardar

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Doddaballapura Town, Bangalore Rural District
Bengaluru- 561203, Karnataka.
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tanvir.sardar@gmail.com

Professional Profile

Enthusiastic and experienced educationalist with 12+ years of teaching experience in reputed engineering colleges and also at University level. Effective communication and knowledge delivery makes build a good rapport with the students and to create a challenging and engaging learning environment to inspire students to pursue academic and personal excellence through outcome based education. He is also submitted his Ph.D. thesis on big data, fuzzy logic, machine learning and distributed computing framework of Hadoop. He is also an educationalist in YouTube and unacademy.

Research Interest

Big Data, Data Mining, Web Mining, Distributed Computing based on MapReduce and Hadoop.

Distinguished

- **Academics:**
Designed and revamped syllabus and assessment for many courses as a member of Board of Studies for Data Science dept.
- **Administration:**
In-charge of ERP software of 6 CSE-Specialization departments for 3+ years as University level responsibility.
- **Research:**
Total 25+ papers are published with 6+ Scopus indexed journals.
- **Accreditation:**
Experienced in NAAC and NBA process works.

Author IDs

Orcid ID	https://orcid.org/0000-0001-7880-0225
Google Scholar*	https://scholar.google.co.in/citations?user=VbAEi5sAAAAJ&hl=en
ResearchGate	https://www.researchgate.net/profile/Tanvir-Habib-2
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YouTube Channel ID	https://www.youtube.com/channel/UCN0piP3IXcgHli4d6O98L2Q
Unacademy ID	tanvir.sardar@gmail.com

* Google scholar: citations: 131, h-index: 5, i10Index: 4 (as on 18th October 2021)

Education

- (Ph.D.) Registered (part-time) in 2016 under Visvesvaraya Technological University, Karnataka.
Course work, Comprehensive viva, Open seminars and Colloquium completed. **Thesis submitted.**
- M.Tech Degree Dept. of Computer Science and Engineering
College: NMAM Institute of Technology, Nitte
University: Visvesvaraya Technological University, Karnataka
First Class with Distinction in 2014
- B.Tech Degree Dept. of Computer Science and Engineering
College: Dumkal Institute of Engineering and Technology, Dumkal
University: West Bengal University of Technology, Kolkata
DGPA 7.42 in 2008

Professional Experience

Total 13+ years of experience including 12+ years of teaching experience in a reputed engineering colleges.

1. JOB PROFILE: TEACHING

Department Computer Science and Engineering
College GITAM School of Technology
University GITAM University, Bengaluru Campus
Designation Assistant Professor
Experience 17th March 2022 TILL date

GITAM Bangalore ranked 1001+ among Top Universities in Times Higher Education World University Rankings 2021. GITAM is ranked 71 among universities in India by the National Institutional Ranking Framework (NIRF) in 2022 and in the 101–150 band in overall category. Recognized by UGC-MHRD as Category-'I' Deemed to be University. Accredited by NAAC as A+ Grade in 2017.

2. JOB PROFILE: TEACHING

Department Data Science, Under School of CSE
College Faculty of Engineering and Technology
University Jain University, Bengaluru
Designation Assistant Professor
Experience 13th August 2018 TO 16th March 2022

Jain University's School of Engineering and Technology is awarded by EdTech Review Awards for the Best Excellence and Innovation in Engineering (South) in 2018. I had been a part of NAAC accreditation process when JU was accredited with a CGPA of 3.71 on a four point scale at A++ Grade by NAAC in 2021. I have also worked as a CSE faculty during NBA process of March 11-13 visit of NBA team

3. JOB PROFILE: **TEACHING**

Department Computer Science and Engineering
College P.A. College of Engineering, Mangaluru
University Visvesvaraya Technological University , Karnataka
Designation Lecturer, Assistant Professor
Experience Almost 9 years [7th September 2009 TO 10th August 2018]

P.A. College of Engineering was established in 1999. The college is affiliated to Visvesvaraya Technological University, Belgaum, approved by AICTE, New Delhi. The college is one of the best in engineering education in the south Karnataka

4. JOB PROFILE: **INDUSTRY**

Organization Assurgent Technology Solutions, Durgapur
Designation Developer Trainee and Assistant Developer
Experience 1 year [Year 2008 to 2009]

Assurgent Technology Solutions is a solution provider based in Hyderabad. I got recruited in an on-campus drive. Once a day training on web development were undergone just after that, from 28th of October, 2007 till end of July, 2008. After successfully completing training on web development I joined as a full time web developer, but due to my passion in teaching profession after four months I left the company and joined as a Lecturer in an engineering college.

Courses Taught at Undergraduate Level

- Database Management System
- Unix System Programming with C++
- Big Data Analytics
- Unix Shell Programming
- Natural Language Processing
- Java and J2EE
- Software Engineering
- Data Mining
- Software Architecture
- Operating Systems
- Data structures
- OOP with C++
- Data Warehousing
- Programming in C
- Computer Networks

Courses Taught at Postgraduate Level

- Managing Big Data
- Cloud Computing
- Storage Area Networks

Research Publications

Conference Publications

- Gadige Mani Kiran, Sane Greeshma , Perla Vishnu Teja , Sreehari Rao, **Tanvir H Sardar**,

Moksud Alam Mallik, “E-Commerce Clothing Review Analysis and Model Building”, 2nd International Conference on Advances in Computer Engineering and Communication Systems, Organized by Dept. of CSE,VNR VJIET in collaboration with CSI and Springer Nature during 13th and 14th August, 2021. https://link.springer.com/chapter/10.1007/978-981-16-7389-4_48.

- Prabuddha Dasgupta, Atishay Jain, Jitendra Jaiswal, **Tanvir H Sardar**, “Machine Learning Techniques on Big Market Sales Data and Prediction of Sales of a Store”, National Conference Gnana Chilume, School of Engineering and Technology, Bangalore, April , 2019.
- **Tanvir Habib Sardar**, Zahid Ansari, Sahanowaj Khan, “Exploitation of MapReduce Efficiency in Standard Text Dataset Clustering using Distributed K-means Algorithm”, *Springer International Conference Emerging Technologies in Data Mining And Information Security (IEMIS)*, Kolkata, West Bengal, February 23-25, 2018.
- **Tanvir Habib Sardar**, Zahid Ansari, and Amina Khatun. "An evaluation of Hadoop cluster efficiency in document clustering using parallel K-means", *2017 IEEE International Conference Circuits and Systems (ICCS)*, Thiruvananthapuram, Kerala, 20-21 December 2017. DOI: [10.1109/ICCS1.2017.8325954](https://doi.org/10.1109/ICCS1.2017.8325954). **Electronic ISBN:978-1-5090-6480-9**
- **Tanvir Habib Sardar**, Amina Khatun, and Sahanowaj Khan. "Design of Energy Aware Collection Tree Protocol in Wireless Sensor Network", *IEEE International Conference Circuits and Systems (ICCS)*, Thiruvananthapuram, Kerala, 20-21 December 2017.
- **Tanvir Habib Sardar**, Ahmed Rimaz Faizabadi, Zahid Ansari, “An Evaluation of MapReduce Framework in Cluster Analysis”, *IEEE International Conference Intelligent Computing, Instrumentation and Control Technologies (ICICT-2017)*, Kannur, Kerala, 6th and 7th July, 2017. DOI: [10.1109/ICICT1.2017.8342543](https://doi.org/10.1109/ICICT1.2017.8342543). **Electronic ISBN:978-1-5090-6106-8**.
- **Tanvir Habib Sardar**, Ahmed Rimaz Faizabadi, Zahid Ansari, “An Analysis of Data Processing using MapReduce Paradigm on the Hadoop Framework”, International Conference on Emerging Trends in Science and Engineering (ICETS-2017), Coorg, Karnataka, 11th and 12th May, 2017.
- **Tanvir H. Sardar**, Maksud Alam, Zahid Ansari, “A Technique for Authentication of Multicast Packets using Digital Signature”, International Conference on Emerging Trends in Engineering & Technology (I-SEC-ICETET-2017), Arasampatti, Tamil Nadu, 1st and 2nd June, 2017.
- Sereena M.V, **Tanvir Habib Sardar**, Ahmed Rimaz Faizabadi and Zahid Ansari, “A Methodology of Retinal Image Analysis”, International Conference on Emerging Trends in Engineering & Technology (I-SEC-ICETET-2017), Arasampatti, Tamil Nadu, 1st and 2nd June, 2017.
- **Tanvir Habib Sardar**, Kevin Joy D’Souza, Zahid Ansari, “An Analysis of Recent Themes and Directions of Fuzzy Clustering Algorithms”, National Conference on Emerging Trends in Engineering and Technology (ETET-2016), Hyderabad, Telengana, 17th and 18th December, 2016.
- **Tanvir Habib Sardar**, Amjad Khan, Zahid Ansari, Naveen D. Chandavarkar, “A Methodology for Detecting Web Crawler Requests from Voluminous Web Log File” in International Conference on Emerging Trends in Engineering, Nitte , Karnataka, 15th and 17th May, 2014.
- **Tanvir Habib Sardar**, Zahid Ansari, Amjad Khan, “A Methodology for Wireless Intrusion

Detection System”, International Conference on Information and Communication Technologies, Shimoga, Karnataka, 3rd - 6th May, 2014.

- Zahid Ansari , **Tanvir Habib Sardar**, Maksud Alam, Naveen D Chandavarkar, “Data Mining in Soft computing framework: A Survey”, National Conference on Multimedia and Information Security, Nitte, Karnataka, 25-26th February, 2014.
- **Tanvir Habib Sardar**, Zahid Ansari, “Detection and Confirmation of Web Robot Requests for Cleaning Voluminous Web Log Data”, *IEEE International Conference Impact of E-Technology to Us*, Bangalore, Karnataka, 10th and 11th January, 2014.

Journal Publications

- **Tanvir Habib Sardar** and Zahid Ansari, “MapReduce based Fuzzy C-means Algorithm for Distributed Document Clustering”, Journal of The Institution of Engineers (India): Series B, (), 1-12, 2021. DOI: 10.1007/s40031-021-00651-0
- **Tanvir Habib Sardar** and Zahid Ansari, “Distributed Big Data Clustering using MapReduce based Fuzzy C-Medoids”, Journal of The Institution of Engineers (India): Series B, Springer, 2021. DOI: 10.1007/s40031-021-00647-w
- **Tanvir Habib Sardar** and Zahid Ansari, “An Analysis of Distributed Document Clustering using MapReduce based K-Means Algorithm”, Journal of The Institution of Engineers (India): Series B, Springer, 101, 641–650, 2020, Electronic ISSN: 2250-2114. <https://link.springer.com/article/10.1007/s40031-020-00485-2>
- Shiwani Lawte, Dr. Kuldeep Sharma, **Tanvir H Sardar**, “Review on Pneumonia Detection from Chest X-Ray using Deep Learning Approach”, International Journal for Research in Applied Science and Engineering Technology, Volume 8, Issue VI, 2076-2081, June 2020, <http://doi.org/10.22214/ijraset.2020.6340>, ISSN: 2321-9653
- Hussain Ahmed Choudhury, Nidul Sinha, Tanvir H Sardar, Archana Waghmare, “Performance-Based Study on Diamond Search and its Variations For Efficient Motion Estimation in Video”, ICTACT Journal on Image and Video Processing, ICTACT, Volume: 9 , Issue: 4, 1992-2001, May 2019, DOI: 10.21917/ijivp.2019.0283, ISSN (PRINT): 0976-9099, ISSN (ELECTRONIC): 0976-9102
- **Tanvir Habib Sardar**, Mahima N, Noor Siddiq, “Multi-layered Security System using Cryptography and Steganography”, International Journal of Innovative Research in Computer Science & Technology (IJRCST), 7(2), 8-11, 2019, ISSN: 2347-5552, DOI: 10.21276/ijrcst.2019.7.2.1
- Zahid Ansari, Asif Afzal and **Tanvir Habib Sardar**, “Data Categorization Using Hadoop Map-Reduce Based Parallel k-Means Clustering”, Journal of the Institution of Engineers (India)- Series B, Springer, 100, 95–103, 2019, Scopus, Impact Factor 2017: 0.148, online 25th February, 2019 doi: <https://doi.org/10.1007/s40031-019-00388-x>, Electronic ISSN: 2250-2114
- **Tanvir Habib Sardar** and Ahmed Rimaz Faizabadi, “Parallelization and analysis of selected numerical algorithms using OpenMP and Pluto on symmetric multiprocessing machine”, Data Technologies and Applications, Emerald, 2019, 53(1), 20-32, Scopus, Impact Factor 2017: 1.170, doi: <https://doi.org/10.1108/DTA-05-2018-0040>, ISSN: 2514-9288
- **Tanvir Habib Sardar** and Zahid Ansari, "Partition based clustering of large datasets using MapReduce framework: An analysis of recent themes and directions", Future Computing and

Informatics Journal, Elsevier, 247-261, 3(2), 2018, ISSN: 2314-7296.
doi: <https://doi.org/10.1016/j.fcij.2018.06.002>.

- **Tanvir Habib Sardar**, Zahid Ansari, “An Analysis of MapReduce Efficiency in Document Clustering using Parallel K-Means Algorithm”, Future Computing and Informatics Journal, Elsevier, 200-209, 3(2), 2018, ISSN: 2314-7296.
doi: <https://doi.org/10.1016/j.fcij.2018.03.003>.
- **Tanvir H. Sardar**, Rafa T. A, “A Methodology for Segmentation of White Matter From Brain FMRI Images”, International Journal for Science and Advance Research In Technology, 3(9), Sep, 2017. ISSN [Online] : 2395-1052,
- **Tanvir Habib Sardar**, Ahmed Rimaz Faizabadi, Zahid Ansari, “An Analysis of Data Processing using MapReduce Paradigm on the Hadoop Framework”, Special Issue in International Journal of Emerging Research in Management and Technology, 6.5 (2017), 922-927.
- **Tanvir Habib Sardar**, Zahid Ansari, Amjad Khan, “A Methodology for Wireless Intrusion Detection System”, Special Issue in International Journal of Computer Applications, (2014), 0975 – 8887, <http://research.ijcaonline.org/icit/number6/icit1462.pdf>.
- **Tanvir Habib Sardar**, “A Methodology in Mobile Networks for Global Roaming”, Oriental Journal of Computer Science and Technology, 6(4) (2013), 391-396, Available from: <http://www.computerscijournal.org/?p=2842>.
- Abdul Majeed K.M, Pallavi K.N, **Tanvir Habib Sardar**, “Feature subset selection for high dimensional data with domain analysis using semantic Mining”, IOSR Journal of Computer Engineering, 16(5), 2014, 108-111. <http://www.iosrjournals.org/iosr-jce/papers/Vol16-issue5/Version-1/P01651108111.pdf>

Workshop/ FEP/ FDP/Conference Participations/Conduction/Resource Person

- Resource person of 5 days National Level workshop named “Artificial Neural Network using MATLAB Tool” organized by Artificial Intelligence department of School of CSE, Jain University, Bangalore.
- Participated in an LinkedIn online course named “Learning to Teach Online” on Jan 03, 2021
- Participated in 5 days Faculty Development Programme titled “Current Trends in Machine Learning with Python – A Hands-on Approach” held by School of Engineering, Dayananda Sagar University, Bengaluru, during July 6th – 10th 2020.
- Participated in 3 days IEEE International Conference titled “Advanced Computing and Communication Technologies for High Performance Applications” held by Federal Institute of Science and Technology, Kerala, India during July 2nd – 4th 2020.
- Participated in 5 days Faculty Development Programme titled “Natural Language Preprocessing” held by REVA University, Bengaluru during June 30th – 4th 2020.
- Participated in 3 days workshop titled “Data Science and Machine Learning” held by Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur during June 26th – 28th 2020.
- Participated in webinar titled “Discover Emerald e-resources for your academic excellence and research” held by Emerald Publishing during on Monday, 29 June 2020.

- Participated in 6 days Workshop titled “Technical Document Preparation using LaTeX” held by Dr. S. & S. S. Ghandhy Government Engineering College, Surat during June 8 to 13 2020.
- Participated in 4 days Faculty Development Programme titled “From Teaching to Learning: A Framework for Innovation” held by Centre for Research in Social Sciences and Education (CERSSE), JAIN (Deemed-to-be University), Bengaluru during June 15th to 18th, 2020.
- Participated in 6 days Faculty Development Programme titled “EMERGING TRENDS IN CYBER SECURITY” held by Department of Computer Science & Engineering, CMR Institute of Technology, Bengaluru during June 15th to 20th, 2020.
- Obtained NPTEL online certification for 12-week 3-credit course titled “NBA Accreditation and Teaching-Learning in Engineering (NATE)” with score 83% during Jan-Apr 2020.
- Participated in 5 days Faculty Development Programme on “Data Science” held by Department of Information Technology, Fr. Conceicao Rodrigues College of Engineering, Mumbai, during May 26th to 30th, 2020.
- Participated in 9 days Faculty Development Programme titled “New Age Technologies- Data Science” held at School of Engineering and Technology, Jain University, Bengaluru during 17th - 25th January, 2019.
- Participated in 5 days Faculty Development Programme titled “Machine Learning and Artificial Intelligence” held at School of Engineering and Technology, Jain University, Bengaluru during 15th-19^h October, 2018.
- Participated in 5 days Faculty Development Programme titled “Engineering Education” held at School of Engineering and Technology, Jain University, Bengaluru during 24th-28th September, 2018.
- Participated in Faculty Development Programme titled “Understanding and Dealing with Adolescents” held at P.A. College of Engineering, Mangalore during 7th February, 2018.
- Attended the 2 day workshop named “Spoken Tutorial on Advanced C++” on 2nd and 3rd February, 2017.
- Participated in three day workshop titled “EUREKA: International Workshop on Research, Writing and Publication” held in P.A. College of Engineering, Mangalore during 1st to 3rd September, 2016.
- Participated in one day Faculty Development Programme titled “Organized Learning” held in P.A. College of Engineering, Mangalore on 20th August, 2016.
- Participated in Deep Dive Faculty Enablement Programme on “Big Data and Analytics” conducted by Infosys Limited, Mangalore Development Centre during 22nd to 26th August, 2016.
- Participated in the Faculty Enablement Programme named “Technical Writing, Preparing Research Proposals and Applying for Research Funds” in Mangalore on 14.03.2016
- Participated in the Faculty Development Programme named “Collective Wisdom-A Better PACE” held in P.A. College of Engineering, Mangalore on 7th – 9th September, 2015.
- Participated in the Faculty Enablement Programme on “Reach, Touch and Teach- Mastering the Art of Counseling” held on 14th March, 2015.
- Participated in Faculty Enablement Programme on “Foundation Programme 4.0” at Infosys Development Centre, Infosys Campus Connect, Mangalore during 15th -19th December 2014.
- Participated in the AICTE sponsored Faculty Development Programme on “Advances in Signal Processing and its implementation using VLSI” organized by PACE. Mangalore from

22nd- 24th January, 2014.

- Attended the workshop on “Faculty Enablement Programme” on “Sprucing up Mobile Applications using Android” conducted by Infosys Limited on Canara Engineering College, Mangalore from 27-31, January, 2014.
- Attended the workshop on “Research Methodologies” held at NMAM Institute of Technology, Nitte, Karnataka on 28th September, 2013.
- Participated three day workshop on “Software Testing and Quality” held at Mangalore Institute of Technology and Engineering, Moodabidri from Jan 31st –Feb 2nd, 2013.
- Attended the PHP and MySQL workshop named “Talk to a Teacher Project” at IIT Bombay on 9th November 2012.
- Certified “IBM Certified Associate Developer” on Rational Application Developer for WebSphere Software v6.0 on 12th May, 2011.
- Certified for “IBM Certified Solution Designer” on Rational Functional Tester for Java on 12th May, 2011.
- Attended two day faculty development workshop on “Application Development using VB.Net and ASP.Net”, held at Srinivas Institute of Technology, Mangalore on 25-26th February, 2011.

Book Publications

- Tanvir Habib Sardar, Ahmed Rimaz Faizabadi, “Parallelization of Numerical Algorithms using OpenMP and Pluto- An Experimental Evaluation”, March 2019, Lambert Academic Publishing. ISBN: 978-613-9-45764-9. <https://www.amazon.com/Parallelization-Numerical-Algorithms-using-OpenMP/dp/6139457645>. 68 pages. Saarbrücken, Germany
- Zahid Ahmed Ansari, Tanvir Habib Sardar, “Traditional and Map-Reduce Based Clustering for Large Datasets”, July 2019, Lambert Academic Publishing. ISBN: 978-620-0-24465-9. 132 pages. <https://www.amazon.com/Traditional-Map-Reduce-Based-Clustering-Datasets/dp/6200244650>.

Academic Services

- Reviewer of journal “IETE Technical Review”, Taylor & Francis, 2017.
- Reviewer of journal “Journal of Computer Science Applications and Information Technology”, Symbiosis Group Journal, 2018.
- Professional Lifetime Member of “Institute for Exploring Advances in Engineering”, India.
- Professional Lifetime Member of “International Association of Engineers”, Hong Kong.
- Lifetime Member of “International Society for Research and Development”, United Kingdom.

Departmental Services

- Organized the three day workshop titled “EUREKA: International Workshop on Research, Writing and Publication” held at P.A. College of Engineering, Mangalore during 1st to 3rd September, 2016.
- Organized the state level intercollegiate technical fest titled “PACE TECHNTHON’16”

held at P.A. College of Engineering, Mangalore during 12th April, 2016.

- Co-ordinated the “One Day Design Awareness / Orientation Programme on Design & Innovation under Design Clinic Scheme” by MSME, Govt. of India held at P.A. College of Engineering, Mangalore on 25th October, 2016 Organized by MSME, Bengaluru.
- Organized a three day workshop named “Google Apps for Education” held on 19th to 21st of August, 2015 at PA College of Engineering Mangalore.
- Worked as staff warden, senior hostel of P.A. College of Engineering, Mangalore for more than 3 years.
- Awarded certificate of appreciation for the dedicated contribution towards IBM workshops (RAD, RFT, DB2) programme for the academic year 2010-12.
- Smoothly conducted exams as an Internal Exam coordinator several times.
- Awarded certificate of appreciation for the excellence as office bearer of the ISTE-PACE faculty chapter.
- Recognized as Bronze partner faculty member from Infosys Campus Connect.

Training Pursued

- A training programme designed and developed by IBM on “Core Java with Demo Project” attempted and successfully completed during B.Tech for the final year project. The duration of the training was 60 days.
- The final year “Industrial Training” for B.Tech fulfillment was completed on J2SE, J2EE and XML from hp. The training duration was 40 days.

Hobbies

- Swimming
- Reading
- Travelling
- Playing
- Debating

References

- [1] Dr. Zahid Ansari
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- [2] Dr. S.A. Khan
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- [3] Dr. Sharmila Kumari
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I certify that the aforementioned information is correct and complete to the best of my knowledge and belief.

A handwritten signature in black ink, reading "Tanvir H. Sardar". The signature is written in a cursive style with a large initial 'T'.

Tanvir H. Sardar