Dr. SHARMILA N. RATHOD

Ph.D. in Computer Engineering.

M.E. in Computer Engineering

B.E. in Computer Engineering

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Cell No: 9987063438

Designation: **Associate Professor** in the Computer Engineering Department.

Experience: 24 Years.

Teaching Experience:

1. Associate Professor in Computer Engineering Department at Rajiv Gandhi Institute of Technology, Mumbai from March 5, 2021 till date.
2. Assistant Professor in the Computer Engineering Department at Rajiv Gandhi Institute of Technology, Mumbai from February 16, 2009 to March 5, 2021 .
3. Lecturer in the Computer Engineering Department at Rajiv Gandhi Institute of Technology, Mumbai from July 21 2003 to February 16, 2009.

Additional Teaching Related Experience:

1. Responsibility: Convener Library committee, Coordinator Research and Development, NAAC Criteria III Head, NBA Criteria 2 Head, Training and Placement Department Coordinator, Avishkar Institute faculty coordinator. Convener Web Site Development, Project Coordinator for Final Year BE Computer Engineering, Training and Placement coordinator, Examination Coordinator for the mid-term examination of Computer Engineering Dept.
2. Worked as Faculty Coordinator for Avishkar 2020 and Avishkar 2021 for Mumbai University
3. Worked as coordinator for Faculty Development Program at RGIT on Machine Learning with IoT during 16-20 December 2019.

4. Recognized PG teacher in the subject of Computer Engineering, at University of Mumbai
5. Recognized PhD teacher in the subject of Computer Engineering, at University of Mumbai
6. Worked as a Joint Chief Conductor for the University of Mumbai at St. John College of Engineering.
7. Worked as a Senior Supervisor for University Examination.
8. Actively involved and worked for design of course structure, preparation of ME syllabus
9. Computer Network and Information Security, Mumbai University Universities.
10. Working as an Examiner for the last 20 years on various Examination Panels of University of Mumbai, NMIS, University of Pune. BE Computer Engg. ME Computer Engg.

Area of Interest: Software Engineering, Artificial Intelligence.

Publications:

Patent Application

1. Nilesh Rathod, Sharmila Gaikwad, Sunil Wankhade, " A Hybrid Optimisation Driven Extreme Learning Machine for Improving Classification", filed and Granted Patent toAustralian Government under Innovative category Patent 2021107084.
2. Sharmila Gaikwad, "Intelligent System for Satellite Communication from Mobile Device to public Land Mobile networks using IOT and Method Thereof" Filed and Published at office of the Controller General of Patent, Design & Trade Marks Department for Promotion of Industry and internal trade, Ministry of Commerce & Industry.
3. Sharmila Gaikwad, "Jade based solution for healthcare system", Submitted toController General of Patents, Designs & TradeMarks, Boudhik Sampada Bhavan, Antop Hill, S.M. Road, Mumbai-400037, India
4. Sharmila Gaikwad, Bharat Nair, Mandar Maske, Prathmesh sawant, Sameer Nagpure "Smart Shopping Trolley And Billing System Using NODEMCU and RFID", Submitted to Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Antop Hill, S.M. Road, Mumbai-400037, India

Copyright

1. SYSTEMATIC APPROACH IN MULTIPLE DISEASE PROGNOSIS USING MACHINE LEARNING TECHNIQUES Copyright office, Government of india, L-147546/2024 Dated:06/05/2024
2. MODIFIED OPTIMIZATION MODEL FOR IMPROVING EXTREME LEARNING MACHINE FOR DATA CLASSIFICATION, Copyright office, Government of india, L-122628/2023 Dated:31/05/2023

Book Authored

1. A Book chapter - Chapter 3 Big Data Analytics Industry 4.0, Smart Manufacturing, and Industrial Engineering: Challenges and Opportunities CRC Press, 2024/9/16. (Scopus)
2. Business Case Evaluation and Data Identification Publication date 2024 Book Big Data Analytics Techniques for Market Intelligence Copyright: © 2024 Pages 119-135 Publisher IGI Global DOI: 10.4018/979-8-3693-0413-6.ch004 (Scopus)

3. A Book chapter - Chapter 13 Malware Detection in Deep Learning in the book Convergence of

Deep Learning In Cyber-IoT Systems and Security First published: 04 November 2022, Publisher : Wiley Online Library https://doi.org/10.1002/9781119857686.ch13 (Scopus)

4. A Book chapter -Chapter 12 Big Data Platforms in a book Advanced Analytics and Deep Learning Models, Publisher : Wiley Online Library doi.org/10.1002/9781119792437.ch12
5. Software Engineering: for BE students (As per Mumbai university Syllabus). Publisher Nandu Publication
6. Management Information system for BE Student (As Per the Mumbai Uiversity Syllabus) SEAM digital publication.

Minor Research Grant:

Sharmila Gaikwad as co-principal investigator approved a Proposal under Minor Research Project at University of Mumbai on a subject "Traffic Density Analysis and Direction using smart signals", January 2017. Proposal accepted for a research grant of Rs 25000/-

Publications

Journals:

1. Adaptive multidimensional trust-based recommendation model for peer to peer applications Publication date 2024/6/26 Journal Open Engineering Volume 14 Issue 1 Pages 20240049 Publisher De Gruyter **(Scopus)**
2. A Comprehensive Survey of Machine Learning Algorithms for Multi-Disease Prognosis Publication date 2024/6 Journal International Journal of Innovative Research in Engineering Volume 5 Issue 3 Pages 188-189. Publisher Fifth Dimension Research Publication
3. Efficient Detection of Palm and Hand Landmark for Speech Impaired People Using Mediapipe Model Publication date 2024 Journal Journal of comuputer Science Volume 20 Issue 9 Pages 997-1008 Publisher Science publication ISSN 1549-3636 **(Scopus)**
4. MEDCARE: BLOCKCHAIN-BASED HEALTH RECORD EXCHANGE AND PATIENT ENGAGEMENT PLATFORM Publication date 2024 Journal SIRJANA JOURNAL[ISSN:2455-1058] Volume 54 Issue 4 Pages 78-89
5. A Study on Interval Valued Temporal Neutrosophic Fuzzy Sets Publication Journal International Journal of Neutrosophic Science Volume 23 Issue 1 Pages 341-349, 2024 Publisher ASPG **(Scopus) citation 4**
6. A Study on Supply Chain Management Publication date 2023/9 Journal International Journal for Research in Engineering Application & Management (IJREAM) Volume 9 Issue 06 Pages 18-21 Publisher ISSN : 2454-9150
7. Navigating Cardiac Health through Machine Learning – A Literature Survey Publication date 2023/9 Journal INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY IJIRT Volume 10 Issue 4 Pages 298-301 Publisher ISSN: 2349-6002
8. Brain Tumor Detection with Hospital Recommendation System Publication date 2023/4 Journal INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY Volume 9 Issue 11 Pages 297-303 Publisher ISSN: 2349-6002
9. REVIEW ON INTEGRATION OF BIG DATA IN IOT AGRICULTURE SYSTEM, International Journal Trendy Research in Engineering and Technology(IJTRET) 2022, doi.org/10.54473/IJTRET.2022.6101 .

10. Systematic Literature Survey on Accident Alert & Detection System, published in CEUR workshop proceedings, ISSN 1613:0073, Vol 2889, pp 01-09, 2021 (Scopus Indexed)

11. Brain Tumor Detection: An Application Based on Machine Learning, 2021 2nd International Conference for Emerging Technology (INCET), 2021, pp. 1-4, doi: 10.1109/INCET51464.2021.9456347. published in Scopus indexed IEEE Xplore (Citation 9)

12. Analysis of data visualization in two pandemic situations, International Journal of Engineering Applied Sciences and Technology, 2020.

13. Recognition of American Sign Language using Image Processing and Machine Learning, International Journal of Computer Science and Mobile Computing, Vol.8 Issue.3, March- 2019, pg. 352-357. (Citation 9)

14. Procurement of raw material using NFC, International Journal of Advanced Research Trends in Engineering and Technology, ISSN 2394-3777, vol 5 special issue 3, Jan 2018.

15. Information Retrieval and DE- duplication for Tourism Recommender System, International Research Journal of Engineering and Technology(IRJET), e-ISSN: 2395-0056, Page 5-9, Apr 2018. (Citation H-index)

16. Secure Cloud using Secure Data De-duplication Scheme, International Research Journal of Engineering and Technology(IRJET), e- ISSN: 2395-0056, Page 793-799, May 2018.

17. Detection of Malicious Behavior of Agent Using Attack Detection strategies under Multiagent System, International Journal of Modern Engineering Research, IJMER vol8, Issue 5, Ver 1 , May 2018. (Citation 1)

18. Application of Markov Process under Multi-agent System, International Research Journal of Engineering and Technology (IRJET), e- ISSN: 2395-0056, Page 4650-4652, Apr 2018.

19. Proposal of Chat Based Automated System for Online Shopping , American Journal of Neural Networks and Applications, 2017 (Citation i10)

20. Crowd Sourced Work Stealing in Mobile Cloud Computing, in an international Journal for research in Engineering Application and Management, volume 02, Issue 07, Oct 2016.

21. Density Management using Round Robin Scheduling with Varied Time Quantum and Traffic Analysis, in an international Journal of Recent and Innovation Trends in Computing and Communication, volume 4, Issue 10, October 2016, PP 129-133.

22. Enhancing Speed of Map Reduce Classification Algorithms using Pre-Processing Technique, in International Journal of Advanced Research in Computer Engineering and Technology, Volume 5, Issue 10, October 2016, PP 2482-2487

23. Review of Mobile Crowd Computing, in IJIRCCE, Volume 4, Issue 4, April 2016, Impact factor 5.618 ISSN(online 2320-9801, ISSN(print) 2320- 9798. PP-3774- 3777.

24. Internet Controlled Vehicle, International Journal of Recent and Innovation Trends in Computing and Communication, Published in IJRITCC Journal, Volume 4, Issue 4, April 2016, ISSN: 2321-8169 Scientific Journal Impact Factor: 5.837 (Citation 2)

25. Survey on Different Cloud Platform, in IJIRCCE, Volume 4, Issue 3, March 2016, Impact factor 5.618 ISSN(online 2320-9801, ISSN(print) 2320-9798. PP-3774- 3777.

26. Review on Enhancing the Speed of Map Reduce Classification Algorithms using pre-processing Technique, International Journal of Computer Science Trends and Technology (IJCST) – Volume 4 Issue 2 , Mar - Apr 2016

27. Implementation Approach for Traffic Indicator System, IJIRAE, Paper ID FBCS10103, ISSN: 2349-2163 Volume 2 Issue 02, Feb 2015, pp 243- 246.

28. Traffic Indicator System For Hospitals, GRT, Impact factor 3.4052(UIF), ISSN 2231-5063.

29. Agent Oriented Testing on Jade based Hospital Repository Software, GRT, Impact factor

3.4052(UIF), ISSN 2231-5063.

30. A Jade Based Healthcare system, IJCS Journals, Volume 3, Issue 1, No 1, 2015 Reference ID: IJCS-071, PP 407-412.

31. Intrusion Detection System: Security Monitoring System, Published in IJERA Journal, Vol 5, Issue 10(part 3), October 2015.ISSN :2248- 9622, PP 1-5.

32. Testing of Mobile Agent based Application", GRT, Impact factor 3.4052(UIF), ISSN 2231-5063.

33. Integrated Instant Messaging System, IJLTET, Vol 3 Issue 3, January 2014. (Citation H-index)

34. Analysis of Behavior of parallel web browsing: a case study, IJLTET, Vol 3 Issue 3, January 2014.

35. Object Oriented Analysis of Centralized C# Compiler Using Cloud Computing with UML, IJLTET ,Vol 3 Issue 3 Paper no 44, January 2014.

36. Design of Jade based Traffic Indicator System for Hospitals, IFRSA Board IFRSA International Journal of Data Warehousing & Mining on, 15 June 2014, PP 134-137.

37. Mobile Agents in Heterogeneous Database Environment for Emergency Healthcare System, at ITNG 2008 5th International Conference on Information Technology- New Generations April 7-9, 2008, Las Vegas, Nevada, USA. Published in Scopus Indexed IEEE Computer society digital library, ISBN:978-0-7695-3099-4, PP.1220- 1221 **(scopus Citation 5)**

Conference:

1. Brain Tumor Detection: An Application Based on Machine Learning, 2021 2nd International Conference for Emerging Technology (INCET), 2021, pp. 1-4, doi: 10.1109/INCET51464.2021.9456347. published in **Scopus indexed IEEE Xplore Citation 11**

2. Study on Artificial Intelligent in Healthcare, at ICACCS 2021 Shree Ishware College of Engineering,, 19-20 March , Coimbatore, Tamilnadu, India published in Scopus Index IEEE 2021. (**i10 indexed**)

3. **Smart Assistant for Doctors** at International Conference on Topical Transcends in Science, Technology and Management, 17-18 August 2018. Best Paper Award

4. Implementation of Crowd Sourced work stealing Mechanisum, in International Conference on Emanations in Modern Technology and Engineering (ICEMTE-2017), at Shree L.R.Tiwari college of Engg, on 4th and 5th March 2017.

5. A study of gait analysis for human identification, in ICEMTE-2017 at Shree L.R.Tiwari college of Engineering ISSN 2321-819099-104 Volume 5 Issue 3

6. Result Analysis of Ave and Max Algorithms, in International Conference on Emanations in Modern Technology and Engineering (ICEMTE- 2017), at Shree L.R.Tiwari college of Engineering ISSN 2321-819099-104 Volume 5 Issue 3

7. A Study of Consensus Problem in Multiagent System, in International Conference on Emanations Modern Technology and Engineering, ICEMTE-2017 at Shree L.R.Tiwari college of Engineering ISSN 2321-819099- 104 Volume 5 Issue 3

8. Cloud Based Mobile Application for Tracking User Activities, at International Conference on Emerging Trends in Engineering, Science and Technology IFERP, 12-13, March 2016, Mumbai. ISBN:9788192958045, PP 37-40

9. A JADE based Emergency Heterogeneous healthcare system, Information Technologies (InfoTech-2014) 18-19 September 2014, Bulgaria.

10. An Object Oriented Analysis of a mobile agent based Catastrophe Healthcare System using UML, International Conference on Eco- Friendly Technologies for Sustainable Growth ICEFT -14, M.H. Saboo Siddik College of Engg. On 27th and 28th March 2014.\

11. Centralized Compiler using cloud computing, at 7thInternational Conference Panipat, Hariyana, October16-18, 2013, PP 233-237. **(Citation 2)**

12. Parallel web browser, at International Conference on Advanced Computing & Communication Technologies, November 25-26, 2013, Karad, Maharashtra.

13. Object oriented Analysis of a JADE based catastrophe healthcare system, at JJTU, Rajastan, 26-27 Dec 2013.
14. Cloud Computing For Rural Banking, at iFEEL, International Doctoral Thesis Conference, 5-6 February, 2011.
15. Mobile Agents in Heterogeneous Database Environment for Emergency Healthcare System, at ITNG 2008 5th International Conference on Information Technology- New Generations April 7-9, 2008, Las Vegas, Nevada, USA. Published in IEEE Computer society, ISBN:978-0-7695-3099-4, PP.1220-1221
16. Mobile Agent in a Heterogeneous Environment, 3rd International Conference on Advanced Computing & Communication Technologies, November 08-09, 2008.
17. Supply chain management using Object Oriented Analysis and Design, 3rd International Conference on Advanced Computing & Communication Technologies November 08-09, 2008.
18. Role of JADE in an Emergency Healthcare system, International Conference and Colloquium SPIT-IEEE Colloquium 2007, February 4- 5, 2008.

Professional Bodies Association:

1.   ISTE (Indian Society for Technical Education), Life Membership No :LM 47692
2.   IEAE Professional Life time Membership ID: IEAE 2017727
3.   ISOC Internet Society Member ID: 215151
4.   IAOE International Association of Online Engineering Member ID: 10293 IAENG International association for Engineers Fellow Membership No 228358

5.   HKCBEES Hong Kong Chemical, Biologica l& Environmental Engineering Society- Senior Member NO.: 1015

Worked as a Reviewer:

1. Reviewer for International Conference on Advanced Computing Technologies and Applications-2023. organized by Dwarkadas. J. Sanghavi College of Engineering
2. Reviewer for 5th IEEE - International Conference on Advances in Science & Technology (IEEE-ICAST - 2022) organized by K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai, in association with University of Mumbai and Technically Sponsored by IEEE Bombay Section on 2nd and 3rd of December 2022.
3. Reviewer for AICTE Sponsored Virtual Conference Sardar Patel International Conference On "Industry 4.0 - Nascent Technologies and Sustainability for Make in India Initiative" 22nd - 23rd December 2022
4. Reviewer for 2nd International Conference on Advanced Computing Technologies and Applications (ICACTA -2020) organized by Dwarkadas. J. Sanghavi College of Engineering Mumbai-28-29 February 2020.
5. Reviewer for International Conference on Intelligent Computing and Networking, Publication by Springer, Thakur College of Engineering and Technology, Kandivali East, Mumbai, India, February 28-29, 2020
6. Reviewer of International Journal of Science Trends and Technology, ISSN:2347-8578
7. Reviewer for Institute for Exploring Advances in Science & Engineering Journals.

MDP / QIP / FDP / Workshop / Seminar attended :

- Completed 8 week **NPTEL Certification** Program funded by Ministry of HRD, Govt of India on "Road map for Patent Creation", Jan-Mar 2023.

- Completed 4 week **NPTEL Certification** Program funded by Ministry of HRD, Govt of India on "Software Testing", Jan-Feb 2023.

- Completed 8 week **NPTEL FDP** Program funded by Ministry of HRD, Govt of India on "Road map for Patent Creation", Jan-Mar 2023.

- Completed 4 week **NPTEL FDP** Program funded by Ministry of HRD, Govt of India on "Software Testing", Jan-Feb 2023.

- Completed 2 week training Program on "School of Design Thinking", sponsored by AICTE organized by Mct's Rajiv Gandhi Institute of Technology. 25 Nov- 6 Dec 2019.

- Completed 8 week **NPTEL Online Certification** Program funded by Ministry of HRD, Govt of India on "Cloud Computing", Feb –March 2018.

- Completed One week training program on "Internet of Thing Mechatronics :Hand-on- Training on Raspberry-PI" sponsored by Technical Education Quality Improvement Program (**TEQIP Phase III**) at Government college of Engineering, karad, on 25-29 June 2018.

- Completed three days Faculty development Program on "Data Science" at Mct's Rajiv Gandhi Institute of Technology in collaboration with ATs InfoTech Pvt Ltd. On 12-14 July 2018.

- Completed AICTE-ISTE approved one week short term training program on "Recent Trends in Electronics and Instrumentation" From 7th -11th January 2008.

- Completed a one week short term training program on "Project Management" approved by AICTE-ISTE during 8th May to 12th May 2006.

- Completed a one week short term training program on "Emerging trends In Wireless Computer Networking" approved by AICTE-ISTE during 20th November to 24th November, 2006.

- Completed a one day workshop on Achievement motivation training conducted by Technodyne Institute of Personnel and Professional Management on 21st December, 2002.

- Completed one day Workshop on **"Project Management"** at **TCS**, **Thane**.

- Completed one day orientation course in the subject of 'Computer Programming' conducted by Sardar Patel College of Engineering on 10/11/2001.

- Completed 4 days Course on "Rational Software Architecture" conducted by IBM Technology.

- Completed 4 days course at SPIT on **JAVA Open Source with IBM Technology**.

Major Events Organized :
1. Organized a FDP on "Machine Learning with IOT" in Association with Wiley and Media Seven Craft,Andheri, on 16 Dec-20 Dec 2019.
2. Organized a FDP on "Data Science with Python" in Technical Association with ATS. /InfoTechPvt Ltd between 12-14 july 2018.
3. Conducted and organized the workshop on "Python"in collaboration with ACM-RGIT and CESS at MCT's Rajiv Gandhi Institute of technology between 13- 14 August 2018
4. Worked as an Organizing Committee member at the international Conference on Advancesin Computing and Information Technology (ICACIT 2014). At Rajiv Gandhi Institute of technology.

Participated as Session Chair :

1. Invited as a **Session Chair** at 2021 2nd International Conference for Emerging Technology (INCET), 2021, pp. 1-4, doi: 10.1109/INCET51464.2021.9456347. published in Scopus indexed IEEE Xplore

2. Invited as a **Session Chair** at National Conference NCTAA National Conference 28 and 29 January 2016 at Atharv College of Engineering, Malad.

3. Invited as a **Session Chair** at One day " at International Multidisciplinary Conference on "Use of Digital Technology in Business, financial services and Education System" at SevaSadan College of Art, Science and Commerce, Ulhasnagar. 10 Feb 2018.

4. Invited as a Guest of Honor and **Session Chair** at One day at International Multidisciplinary Conference on "Use of Digital Technology in Business, financial services and Education System" at Seva Sadan College of Art, Science and Commerce, Ulhasnagar. 09 Feb 2019.

5. Invited as a Judge For "Project Competition Innovex 2019" at Don Bosco College , of Engineering, Kurla, 04 & 05 April 2019, Mondini Hall & Common Pathway, Don Bosco Institute of Technology, Kurla west, Mumbai

6. Invited as a **Session Chair** at One day" at International Multidisciplinary Conference on "Use of Digital Technology in Business, financial services and Education System" at SevaSadan College of Art, Science and Commerce, Ulhasnagar. 08 Feb 2020

7. Invited as a **Session Chair** at One day" at International Multidisciplinary Conference on "Emerging trends in the area of Management Education and Digital Technolgy" at SevaSadan College of Art, Science and Commerce, Ulhasnagar. 12 Feb 2022.

8. Invited as a Judge for inter collegiate fest '**CARNIVAL AQUA 2022**'as a judge for the event Technical Paper Presentation, Shree L.R. Tiwari College of Engineering, 29 March 2022

Invited Talk

1. Invited as a **Resource person** for conducting session in STTP "Data visualization and Data Analytics" on the Topic: "Introduction to Data Science Tools, Technices and Applications" organized by Information Technology Department Shri Vile Parle Kelavani Mandal's Shri Bhagubhai Mafatlal Polytechnic. on 23rd May 2023

2. Invited as a SPEAKER for "STTP-Machine learning with IoT" on the Topic: "Blending of Technology - ML and IOT Overview Of Applications" organized by Information Technology Department Shri Vile Parle Kelavani Mandal's Shri Bhagubhai Mafatlal Polytechnic. on 14th March 2022

3. Invited as a **Resource person** for delivering a webinar on "Project Management Tools to B.K. Birla college of Art, Science and Commers (Autonomous)" on 22nd September 2021.

4. Invited as a **Resource person** for the **UGC HRDC Organized Refresher's Course** on Robotics and IoT at Mulund College of Commerce, Sponsored by **RUSA** in association with PTVA's Mulund College of Commerce from May 30, 2019 to June 13 2019. For two sessions on June 4 2019.

5. Delivered a Talk on Python at MCT's Rajiv Gandhi Institute of technology on 13-14 August 2018.

6. Delivered an **Expert Talk** on "Project Management" at Shree L. R. Tiwari College of Engineering Miraroad, 16 July 2016

7. Delivered a **Video Lecture** on "Software Engineering" for Atharv College of Engineering, Mumbai, Jan 2015.

8. Delivered an **Expert Talk** on "Object Oriented Analysis and Design Using UML Rational

Rose", at Theems College of Engineering, Bhoisar, Sep 2015.

9. Delivered a **Special Talk** on "E-Commerce" at St. John College of Engineering, Palghar, May 2013

10. Delivered seminar as a **Resource Person** on "JADE-Middleware" (One Session) in the one week short term training program on "Middle ware Technology" approved by AICTE- ISTE at Mct's RGIT, Mumbai, Jan 2010.

11. Delivered seminar as a **Resource Person** on "Object Oriented Analysis and Design"(One Session) in the one week short term training program on "Project Management" approved by AICTE-ISTE during 8th May to 12th May 2006. At MCT's RGIT, Mumbai.

12. Delivered an **Expert Talk** on "Project management and software Engineering, at S.N.D.T. college, Charchgate.

Academic Achievements

1. **University Ranker** in University of Pune at **ME Computer Engineering** Examination.
2. Received **Research Excellence award** from **IEAE** Institute for Exploring Advances in Science & Engineering, Karnataka in the year 2017.
3. **best Paper Award** at International Conference on Topical Transcends in Science, Technology and Management For paper" **Smart Assistant for Doctors**" , 17-18 August 2018.