

STAFF PROFILE



Dr. Rahul MeJOR Desai

Associate Professor

Information Technology

rahuldesai@aitpune.edu.in

Date of Joining
01/07/2003

Nature of Appointment
Regular

Educational Details

Qualification	Degree	University	Grade	Year
Graduation	BE	Pune University	72.28	1998
PG	M-Tech	Pune University	8.68	2007
Doctoral	PhD	Savitribai Phule Pune University	NA	2017

Areas of Interest

Wireless Communication, Ubiquitous Computing, Linux kernel programming, Ad Hoc Network, Embedded Systems

Experience Details

Total : 27.00 years	Teaching : 21.00 years	Research : 5.00 years	Industry : 1.00 years
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Type	Duration/ Period	Designation/ Organisation Name	Brief Job Profile
Industrial	1.00 Years 1998-1999	Trainee Engineer SKF Bearing Ltd	Trainee Engineer
Educational	4.00 Years 1999-2003	Instructor SSI Ltd, Pune	Training to Students and Professionals
Educational	15.00 Years 2003-2017	Assistant Professor Army Institute of Technology	Asst Professor
Educational	2.00 Years 2017 till date	Associate Prof Army Institute of Technology	Associate Professor
Research	5.00 Years 2012-2015	Research Scholar Pune University	Research Scholar

Journal Publications

1. Dr. Rahul Desai, (2020). User Classification in Keystroke Dynamics using auto-encoder and Support Vector Machine. *Journal of Engineering , Computing and Architecture* . 10(7), 28-34. ISBN/ ISSN No : 1934-7197.
2. Rahul Desai, (2019). Devanagari Character Recognition using Machine Learning. *International Journal of Research in Applied Science and Engineering Technology*. 7(3), 22-26. ISBN/ ISSN No : 2321-9653.
3. Rahul Desai, (2019). A Survey of Fraud Detection Techniques: Approach Oriented Perspective. *International Journal for Research in Applied Science & Engineering Technology*. 7(4), 13-18. ISBN/ ISSN No : 2321-9653.
4. Rahul Desai, B P Patil, (2017). Prioritized Sweeping Reinforcement Learning Based Routing for MANETs. *Indonesian Journal of Electrical Engineering and Computer Science*. 5(2), 383-390. ISBN/ ISSN No : 10.11591/ijeecs.v5.i2.pp383-390.
5. Rahul Desai, B P Patil, (2017). [Dual Reinforcement Q Routing for Ad Hoc Networks](http://www.iaescor.com/journals/index.php/IJEECS/issue/view/424). *Indonesian Journal of Electrical Engineering and Computer Science (IJEECS)*. 7(3), 786-794. ISBN/ ISSN No : 2502-4760. URL : <http://www.iaescor.com/journals/index.php/IJEECS/issue/view/424>.
6. Rahul Desai, B P Patil, (2017). [Routing Protocols for Mobile Ad Hoc Network: A Survey and Analysis](#)

- Indonesian Journal of Electrical Engineering and Computer Science*. 7(3), 795-801. ISBN/ ISSN No : 2502-4760. URL : <http://www.iaescore.com/journals/index.php/IJECS/article/view/8001/7416>.
7. B P Patil, Rahul Desai, (2017). [Learning Based Route Management in Mobile Ad Hoc Networks](#). *Indonesian Journal of Electrical Engineering and Computer Science*. 7(3), 718-723. ISBN/ ISSN No : 2502-4760. URL : <http://www.iaescore.com/journals/index.php/IJECS/article/view/8454/7342>.
 8. Rahul Desai, B P Patil, (2017). Adaptive routing based on predictive reinforcement learning. *International Journal of Computers and Applications* . 40(2), 73-81. ISBN/ ISSN No : 1206212X.
 9. Rahul Desai, B P Patil, (2017). [Maximizing Throughput using Adaptive Routing Based on Reinforcement Learning](#). *Int. J. Advanced Networking and Applications*. 9(2), 3391-3395. ISBN/ ISSN No : 0975-0290. URL : <https://www.ijana.in/papers/V9I2-6.pdf>.
 10. Rahul Desai, (2017). Implementation of Secured Web based System using IPsec. *Nov 2017, Innovation – 2017, Regional Research Conference sponsored by University research cell SPPU*. (-), -. ISBN/ ISSN No : -.
 11. Rahul Desai, (2017). Reinforcement Learning Based Spectrum Aware Routing in Cognitive Radio Network. *Nov 2017, Innovation – 2017, Regional Research Conference sponsored by University research cell SPPU*. (-), -. ISBN/ ISSN No : --.
 12. Rahul Desai, B P Patil, (2016). Analysis of Reinforcement Based Adaptive Routing in MANET. *Indonesian Journal of Electrical Engineering and Computer Science*. 2(3), 684-694. ISBN/ ISSN No : 10.11591/ijeecs.v2.i3.pp648-694.
 13. B P Patil, Rahul Desai, (2016). Optimized Reinforcement Learning Based Adaptive Network Routing for MANETs. *Global Journal of Pure and Applied Mathematics*. 12(02), 1432. ISBN/ ISSN No : 0973-1768.
 14. Mr. Rahul Desai, Dr. B P Patil, (2015). Adaptive Routing for an Ad hoc Network Based on Reinforcement Learning. *International Journal of Business Data Communications and Networking*. 11(2), 1-7. ISBN/ ISSN No : 070116-044600.
 15. Rahul Desai, (2015). Reversible Watermarking on the basis of Invariant Image Classification and Quality Preservation by Histogram Modulation. *ISSET - International Journal of Innovative Science, Engineering & Technology*. 2(5), 50-55. ISBN/ ISSN No : 2348 – 7968.
 16. Rahul Desai, (2014). A Generic Clustering Framework for the Implementation of High Availability Using Hazel cast. *International Journal of Electrical, Electronics and Computer Systems*. 2(2), 21-26. ISBN/ ISSN No : 2347-2820.
 17. Rahul Desai, DR. B P Patil, (2014). Flexible and Scalable Routing Approach for Mobile Ad Hoc Networks Based on Reinforcement Learning. *International Research Journal of Engineering and Technology (IRJET)*. 4(6), 1839-1842. ISBN/ ISSN No : 2395 -0056, 2395-0072.
 18. Geeta Patil, (2013). [Configuration of Real Time Linux on EP93XX Platform](#). *International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)*. 2(10), 2798-3802. ISBN/ ISSN No : 2278 - 1021. URL : https://www.ijarcce.com/upload/2013/october/9-h-Rahul_Desai_-_Configuration_of_Real_Time_Linux_on_EP93XX_Platform.pdf.
 19. Rahul Desai, B P Patil, (2013). [MANET with Q Routing Protocol](#). *Asian Journal of Information Technology*. 12(1), 20-26. ISBN/ ISSN No : 1682-3915. URL : <https://www.medwelljournals.com/abstract/?doi=ajit.2013.20.26>.
 20. Rahul Desai, (2012). Survey of On Demand Routing Protocols for Mobile Ad Hoc network.. *International Journal of IT, Engineering and Applied Sciences Research*. 1(2), 10-16. ISBN/ ISSN No : 2319-4413.

Conference Publications

1. Dr. B P Patil, Mr. Rahul Desai, (2015). Cooperative Reinforcement Learning Approach for Routing in Ad Hoc Networks. *International Conference on Pervasive Computing ICPC 2015*. (-), 1-5. ISBN/ ISSN No : 10.1109/PERVASIVE.2015.7086962.
2. Rahul Desai, B P Patil, (2015). Adaptive Online Network Routing Algorithm Based on Reinforcement Learning. *National Conference on Signal and data processing 2015*. (-), 39-44. ISBN/ ISSN No : -.
3. Mr. Rahul Desai, (2014). High Availability Clustering Frame-work. *International Conference: International research conference on recent advances in engineering and technology* . 5(2), -. ISBN/ ISSN No : -.
4. Mr. Rahul Desai, (2014). Reinforcement Learning for Adaptive Network Routing. *International Conference on Computing for Sustainable Global Development*. (-), 815-818. ISBN/ ISSN No : 0973–7529, 978-93-80544-10-6.
5. Mr. Rahul Desai, Dr. B P Patil, (2014). Reinforcement Learning Approach for Ad Hoc Networks. *International Conference on Recent Trends in Engineering and technology (ICRTET 2014)*. (-), 82-89. ISBN/ ISSN No : 978-93-5107-220-1.
6. Dr. B P Patil, Mr. Rahul Desai, (2014). Performance Analysis of Ad Hoc Routing Protocols. *International Conference on Recent Trends in Engineering and technology (ICRTET 2014)*. (-), 105-112. ISBN/ ISSN No : 978-93-5107-220-1.
7. Mr. Rahul Desai, Dr. B P Patil, (2014). Analysis of Routing Protocols for Ad Hoc Networks. *International Conference on Circuits, Systems, Communication and Information technology Applications CSCITA - 2014*. (-), 111-115. ISBN/ ISSN No : 10.1109/CSCITA.2014.6839244.
8. Mr. Rahul Desai, (2013). Detection Of Buried Mines Using Ground Penetrating Radar Through Data Mining Techniques. *The ASAR-International Conference on Advanced Computer Science and*

Information Technology, 1(2), 41-46. ISBN/ ISSN No : 2320-2084.

9. Mr. Rahul Desai, (2012). Survey of Proactive Routing Protocols for Mobile Ad Hoc network.. *International Conference on Recent Trends in Information Technology and Computer Science– 2012*. -(), 10-18. ISBN/ ISSN No : 978-81-922978-2-8.

Guest Lecture

1. How are you (Attended), How are you, 2020, AIT, Pune
2. Road Safety (Attended), Road Safety, 2019, AIT, Pune

Seminar

1. Webinar on How to Write a Good Research Project Proposal for getting Grants (Attended), How to Write a Good Research Project Proposal for getting Grants, 2020, Online
2. Webinar on "Research Methodology and Future Research in Engineering" (Attended), Research Methodology and Future Research in Engineering, 2020, Jaywant College of Engineering and Polytechnic, K.

Workshop

1. One Week Faculty Development Program on "Machine Learning" (Attended), Machine Learning, 2020, Department of Information Science and Engineering,
2. TEQIP III Sponsored One Week Online Short Term Course on Cloud of Things: Theoretical and Practical Implications (Attended), Cloud of Things: Theoretical and Practical Implications, 2020, Online - NIT Jalandhar
3. 3 Days workshop on Robotics (Attended), Robotics, 2020, Sri Venkateswara College of Engg and Technology
4. 2 DAYS WORKSHOP ON INTRODUCTION TO BLOCKCHAIN (Organized), INTRODUCTION TO BLOCKCHAIN, 2020, Pune
5. One Week FDP (Attended), Emerging Trends, Issues and Challenges in Next Generation Technology, 2020, Rama University, Kanpur
6. Four Days FDP on Soft Skills Online Training Program (Attended), Soft Skills Online Training Program, 2020, Bhuj-Kachhh
7. 3-day workshop on Introduction to Web Development (Organized), Introduction to Web Development, 2020, Online
8. FDP on "ICT in Teaching & Evaluation" (Attended), FDP on "ICT in Teaching & Evaluation", 2020, Online - MSP Mandal's Shri Shivaji College, Parbha
9. One Week Online Faculty Development Program on "Research Methodology" (Attended), Research Methodology, 2020, Balaji Institute of Management Sciences
10. Webinar entitled DEVELOPING CRITICAL THINKING SKILLS (Attended), DEVELOPING CRITICAL THINKING SKILLS, 2020, Pune
11. Webinar on Entrepreneurship (Attended), Entrepreneurship, 2020, Pune
12. International Webinar on the topic "Creating opportunities in the face of adversities" (Attended), Creating opportunities in the face of adversities, 2020, Pune
13. National level webinar on "Formula for Success" (Attended), Formula for Success, 2020, Pune
14. Webinar on "Combating the COVID-19 Pandemic: Challenges and Opportunities" (Attended), Combating the COVID-19 Pandemic: Challenges and Opportunities, 2020, Pune
15. One Week FDP on "Make in India - A Journey Towards Self Reliance" (Attended), Make in India - A Journey Towards Self Reliance, 2020, Pune
16. Five Days Online Faculty Development Programme on "Design Thinking Approaches In Engineering" (Attended), Design Thinking Approaches In Engineering, 2020, Pune
17. International Level One Week Faculty Development Programme on Advanced Data Science and its Applications (Attended), Advanced Data Science and its Applications , 2020, Pune
18. Webinar on "IoT Security and Applications" (Attended), IoT Security and Applications, 2020, Pune
19. Two Weeks FDP on "Paradigm Shift In Higher Education Institutes" (Attended), Paradigm Shift In Higher Education Institutes, 2020, Pune
20. 3 Days International Faculty Development Program on "Future Advancements and Applications of Internet of Things" (Attended), Future Advancements and Applications of Internet of Things, 2020, Pune
21. Three days online FDP on "DevOps" (Attended), DevOps, 2020, Pune
22. 3 Days FDP on "Research Publication, Patent Filing and Research Grant" (Attended), Research Publication, Patent Filing and Research Grant, 2020, Pune
23. Socio -Economic Impact of COVID-19 (Attended), Socio -Economic Impact of COVID-19, 2020, Pune
24. Ten Days FDP on "Knockdown the lockdown" (Attended), Knockdown the Lockdown, 2020, Pune
25. Two Days Webinar on "Introduction to IoT and Case Studies on Industrial Applications" (Attended),

- Introduction to IoT and Case Studies on Industrial Applications, 2020, Pune
26. Three days Online Faculty Development Program (Attended), R Programming Language, 2020, Pune
 27. National Level Webinar on "Genius Code- Science of PEAK Performance" (Attended), Genius Code- Science of PEAK Performance, 2020, Pune
 28. OUTCOME BASED EDUCATION (Attended), OUTCOME BASED EDUCATION, 2020, Pune
 29. Digi-Tech Teaching Learning-2020 (Attended), One week Faculty Development Program (FDP) on "Digi-Tech Teaching Learning-2020", 2020, Pune
 30. International Webinar on Recent Trends in Wireless Communication (Attended), Recent Trends in Wireless Communication, 2020, Pune
 31. Catalysis For Environmental remediation (CER-2020) (Attended), Catalysis For Environmental remediation (CER-2020), 2020, Pune
 32. MOODLE LEARNING MANAGEMENT SYSTEM (Attended), MOODLE LEARNING MANAGEMENT SYSTEM, 2020, Pune
 33. Quiz on "NAAC Accreditation awareness, outcome based education, requirements and the procedure" (Attended), NAAC Accreditation awareness, outcome based education, requirements and the procedure, 2020, Pune
 34. Google Drive : Master Google Drive (Attended), Google Drive : Master Google Drive , 2020, Pune
 35. Online Workshop on Deep Web - The complete Introduction to the Hidden Web (Attended), Deep Web - The complete Introduction to the Hidden Web, 2020, Pune
 36. One week DP on ICT tools for Teaching , Learning process and Institutes (Attended), ICT tools for Teaching , Learning process and Institutes, 2020, AIT, Pune
 37. One Week FDP on VLSI Chip Design using open source EDA (Attended), VLSI Chip Design using open source EDA, 2019, AIT, Pune
 38. State level FDP on "Mathematical Modeling Approach towards Data Science" under QIP of SPPU (Attended), Mathematical Modeling Approach towards Data Science, 2019, AIT, Pune
 39. FDP on Python Programming with Industry Perspective (Attended), Python Programming with Industry Perspective, 2019, AIT Pune Remote Center of ICT academy IIITDM Jabal
 40. Android for Ubiquitous Computing (Attended), Android for Ubiquitous Computing, 2018, Cummins COE, Pune
 41. Workshop on Soft Skill - 1 (Organized), Workshop on Soft Skill, 2018, Pune
 42. Workshop on Java (Attended), Java Basics, 2017, AIT, Pune
 43. Network Simulator NS2 Programming (Attended), NS2 Programming, 2016, AIT, Pune
 44. Network Simulation using NS2 (Organized), Network Simulation using NS2, 2014, AIT, Pune
 45. Network Simulation using NS2 & OMNet++ for wireless Network ((Attended), Network Simulation using NS2 & OMNet++ for wireless Network, 2012, Sinhgad Academy of Engineering Kondhwa
 46. NS2 (Attended), Network Simulation using NS2 & OMNet++ for Wired and Wireless Network, 2012, G.H.Raisoni College of Engineering and Management

Research Grants

Title Of Project	Funding Agency	Duration		Sanctioned Amount	Role of Investigator
Investigation and implementation of secure Web based Embedded system using IPSec based on real Time Linux	BCUD, Pune	01/08/2016	30/07/2018	130000.00	Principal Investigator
Reinforcement learning based spectrum aware routing in cognitive radio network	BCUD, Pune	01/08/2016	30/07/2018	90000.00	Co-Investigator
A Zig-Bee Based Intelligent Self Adjusting Sensor and Energy Management system for home Automation	BCUD, Pune	07/05/2013	08/10/2015	105000.00	Co-Investigator

Consultancy

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Investigator Role
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Professional Memberships

Society	Membership No	Duration	
IETE	M-235402	02/10/2003	10/04/2027
ACM	ACM803593	15/07/2014	15/07/2025

Achievements/ Contribution

Year	Details
2017	Best Result Award
2014	Best Teacher Award
2013	Best Result Award

No of PhD Students Guided : 0 **No of PG Students Guided** : 0
No of PhD Awarded Students : 0