

Name **MR. RAHULKUMAR P. TIVAREKAR**
B.E. (EXTC), M.E. (ELECTRONICS COMM. & INSTRU.), Data Scientist (Graduate Program of Simplilearn)

Designation Assistant Professor

Department Computer Science & Engineering (AI & ML)

Date of Joining the Institute 01/07/2011

Education B.E., ELECTRONICS AND TELECOMMUNICATION (2009), M.E., ELECTRONICS COMM. & INSTRU.(2017), Data Scientist (Graduate Program of Simplilearn 2021-2023)

Branch / Specialization Computer Science & Engineering (AI & ML)

Areas of Interest Digital Signal Processing, Python Programming, Artificial Intelligence, Machine Learning

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Academic Appointments

Name of the University / Institute/ Industry	Duration	Designation
Finolex Academy of Management and Technology, Ratnagiri	From 16/07/2010 to 31/05/2011	Lecturer
Finolex Academy of Management and Technology, Ratnagiri	From 01/07/2011 to till date (Regularized from 01/12/2011)	Assistant Professor

Total Experience – 13 Years

Awards / Honors / Prizes

1. Successfully graduated as a **"Data Scientist"** from the Simplilearn's Master Program having completed all mandated course requirements and industry projects with distinction **dated 09 June 2023.**
2. Awarded for **exceptional contribution** as a **Primary Evaluator in Toycathon 2021** competition jointly held by AICTE and Ministry of Education's Innovation Cell, Govt. of India.
3. Achieved **Elite+Gold Certification with top 2% topper** in 12 Week NPTEL Online FDP/certification Course on **"The Joy of Computing Using Python"** conducted by Indian Institute of Technology Madras from **July 2019 to October 2019.**

4. Achieved **Elite Certification with top 5% topper** in 8 Week NPTEL Online FDP/certification Course on **"Introduction to Coding Theory"** conducted by Indian Institute of Technology Kanpur from **January 2019 to March 2019**.
5. Achieved **Elite Certification** with a consolidated score of 71 % in 12 Week NPTEL Online Certification Course on **"Networks and Systems"** conducted by Indian Institute of Technology Madras from **July 2017 to October 2017**.
6. **WON 1st Prize in National level Technical Paper Presentation Competition** held in MIT Aurangabad (Presented a paper titled **"Trans-Oceanic Communication, Developments & Applications"** in 15th to 17th September 2007).

Papers Published

Papers Presented/Published in National/ International Journals - 04

International Journals – 04

1. Published a paper, titled as **"MULTI-WAVELET TRANSFORM-VIDEO ENCODING FOR CONTENT PROTECTION WITH SECRET KEY"** in the **International Open Access Journal of Emerging Technologies and Innovative Research (JETIR), UGC Approved Journal**, Volume 6 Issue 5, **May 2019** (ISSN : 2349-5162)
2. Published a paper, titled as **"Audio Based Bird Species Recognition using Naïve Bayes Algorithm"** in the **International Journal of Modern Trends in Engineering and Research (IJMTER), UGC Approved Journal**, Volume 5 Issue 1, **January 2018** (e-ISSN : 2349-9745, p-ISSN : 2393-8161)
3. Published a paper, titled as **"Bit Error Rate Performance of OFDM-QAM Modulation and WHT OFDM-QAM Modulation Using Rayleigh and Rician Channel"** in the **International Journal of Modern Trends in Engineering and Research (IJMTER), UGC Approved Journal**, Volume 5 Issue 1, **January 2018** (e-ISSN : 2349-9745, p-ISSN : 2393-8161)
4. Published a paper, titled as **"Species Recognition Using Audio Processing Algorithm"** in the IEEE, International Conference on **Trends in Electronics and Informatics (ICEI) 2017**, organized by SCAD college of Engineering and Technology, Tirunelveli, Tamilnadu on **11 -12 May 2017**. ISBN: 978-1-5090-4255-5

Papers Presented/Published in National/ International Conferences - 02

International Conferences – 02

1. Participated/Presented a paper, titled as **"Automatic Temperature Detection For Covid Safety"** in the International Conference on Communication and Computing 2022 (ICCC-2022) jointly organized by Department of IT, EXTC, ETRX, and MCA, at Finolex Academy of Management & Technology, Ratnagiri on 8th – 9th April, 2022

Paper Published in **International Journal of Creative Research Thoughts (IJCRT)**, UGC Approved Journal No: 49023 (18), Volume 10 Issue 4, Date of Publication: 18-April-2022 (ISSN: 2320-2882)

2. Presented a paper, titled as **"Species Recognition Using Audio Processing Algorithm"** in the IEEE, International Conference on **Trends in Electronics and**

Informatics (ICEI) 2017, organized by SCAD college of Engineering and Technology, Tirunelveli, Tamilnadu on **11 -12 May 2017**. ISBN: 978-1-5090-4255-5

Paper Published in conference proceeding book "International Conference on Trends in Electronics and Informatics ICEI 2017" and also available on IEEE xplora (**Electronic ISBN:978-1-5090-4257-9**

Print on Demand(PoD) ISBN: 978-1-5090-4258-6)

DOI: 10.1109/ICOEI.2017.8300715

Number of Workshops, Seminars, STTPs, FDPs Attended – 32

STTPs and FDPs – 15

1. Successfully completed **ISTE approved One week** online faculty training program on **"AI Algorithms and Applications in Healthcare"** organized by E&TC department of Finolex Academy of Management and Technology from 19/06/2023 to 23/06/2023
2. Participated and successfully completed the **five days** FDP on **"Developing Potential-Emerging Technologies of Computer Science"**, Organized by Dept. of MCA & Dept. of CSE of Sri Balaji College of E&T, Jaipur from **25-04-2023 to 29-04-2023**
3. Completed a One-week Gusto valley Technovations' Training Program on **"Cloud Computing"** Organized by Dept of Electronics and Telecom. of FAMT Ratnagiri from **1st to 5th August, 2022.**
4. Participated and successfully completed the **one week** online Elementary FDP on **"Industrial Internet of Things (IIOT) and Transition to Internet of Brains (IOB)"**, conducted at Don Bosco Institute of Technology by AICTE Training and Learning (ATAL) Academy, from **20/09/2021 to 24/09/2021**
5. Successfully completed an online **three days** faculty training program on **"Artificial Intelligence in Telecommunication"** organized by E&TC department of Finolex Academy of Management and Technology from **28/06/2021 to 30/06/2021.**
6. Participated and Successfully completed AICTE Training and Learning (ATAL) Academy Online FDP on **"Data Science and Analytics"** from **30/11/2020 to 04/12/2020.**
7. Participated and Successfully completed AICTE Training and Learning (ATAL) Academy Online FDP on **"Internet of Things (IoT)"** from **05/10/2020 to 09/10/2020.**
8. Attended national FDP **"Exploring the Dimensions of Innovation, Incubation, and Emerging Technologies to Embrace Post COVID Changes"** Organized by Finolex Academy of Management and Technology, Ratnagiri (ONLINE) from **08/06/2020 to 12/06/2020.**
9. Participated in the **"Moodle Learning Management System"** training organized at Vidyavardhini College of Engineering and Technology in January 2020 semester, with course material provided by the Spoken Tutorial Project, IIT Bombay, funded by NMEICT, MHRD, Govt. of India, during **January 2020 to 1st March 2020.**
10. Successfully completed a **12-week** NPTEL-AICTE online Faculty Development Program on **"The Joy of Computing Using Python"** conducted by IIT Madras from **July 2019 to October 2019** with consolidated **score of 92%.**
11. Participated in One-week ISTE approved short term training program on **"Open Source Solutions in Teaching Learning Process"**, organized by Department of Information Technology of Finolex Academy of Management and Technology, Ratnagiri, from **24th to 28th June, 2019.**
12. Successfully completed a **8 week** NPTEL-AICTE Online FDP on **"Introduction to Coding Theory"** conducted by IIT Kanpur from **January 2019 to March 2019** with consolidated **score of 71%.**
13. Attended national FDP **"Introduction to machine Learning"** conducted by Indian Institute of Technology (IIT), Kharagpur (ONLINE) from **16/12/2017 to 17/12/2017.**

14. Participated in One-week TEQIP-II ISTE approved short term training programme on **"Industrial Automation and Virtual Instrumentation"**, organized by Don Bosco College of Engineering, Goa, from **7th to 11th November, 2016**.
15. Participated in **Two-week** ISTE STTP on **"Effective Mentoring of Online Students in Signals and Systems, Part 1 – WEE210.1x"**, Conducted by IIT Bombay from **12th March 2015 to 20th May 2015**.

Conferences/Seminars/Webinars attended – 05

16. Attended the **International Conference on Communication and Computing 2022 (ICCC-2022)** jointly organized by Department of IT, EXTC, ETRX, and MCA, at Finolex Academy of Management & Technology, Ratnagiri on **8th – 9th April, 2022**
17. Participated in the webinar discussion on **"Impact of National Education Policy (NEP) 2020 on Higher Educational Institutions"** organized by IQAC of SIES (Nerul) College of Arts, Science and Commerce in association with SIES Central Training Department and Higher Education Forum (HEF) on **28th October, 2020**.
18. Attended a webinar on **"Cyber Security"**, organized by Department of Electronics and Telecommunication Engineering of FAMT, Ratnagiri on **20th June 2020**.
19. Attended a one day seminar on **"Introduction to Speech Technology: Automatic Speech Recognition and Text-to-Speech Synthesis"**, organized by Department of Electronics and Telecommunication Engineering of FAMT, Ratnagiri on **31st January 2018**.
20. Attended the IEEE, **International Conference on Trends in Electronics and Informatics (ICEI) 2017**, organized by SCAD college of Engineering and Technology, Tirunelveli, Tamilnadu on **11 -12 May 2017**

Two Week or One Week Workshops - 05

21. Participated in workshop **"VLSI to System Design: Silicon to End Application Approach"**, organized by All India Council for Technical Education (AICTE), Arm education and STMelectronics from 31st July to 4th August 2023.
22. Participated in **Two-week** ISTE workshop on **"Signals & Systems"**, conducted by IIT Kharagpur from 2nd to 12th January, 2014.
23. Participated in **Two-week** ISTE workshop on **"Analog Electronics"**, conducted by IIT Kharagpur from 4th to 14th June, 2013.
24. Contributed as **Teaching Assistant** for **Two-week** ISTE workshop on **"Introduction to Research Methodologies"**, conducted by IIT Bombay from 25th June to 04th July, 2012.
25. Participated in **Two-week** ISTE workshop on **"Basic Electronics"**, conducted by IIT Bombay from 28th June to 8th July, 2011.

Workshops - 07

26. Participated in **"One day Workshop on Arduino"** organized by Teaching Learning Centre (ICT) at IIT Bombay on **08 February 2020**.
27. Participated in **Two days international workshop on Open Source "WebGIS platform"**, organized by Department of E&TC and Center of Excellence in Geoinformatics supported by Savitribai Phule Pune University on **10th and 11th January 2020**.
28. Participated in **"One day Workshop on R"** organized by Teaching Learning Centre (ICT) at IIT Bombay on **09 November 2019**.
29. Attended **One day "Python Workshop"** organized by Teaching Learning Centre (ICT) at IIT Bombay on **22 June 2019**.
30. Attended a **Two day** workshop on **"RF and Antennas – From Theory to Practice"**, organized by Electronics and Telecommunication Engg. Dept., during **11th and 12th August, 2017**.
31. Participated in a **Two day** ISTE Workshop on **"Aakash for Education"**, Conducted by IIT Bombay in association with MHRD, at FAMT, on **10th and 11th November, 2012**.
32. Attended a **Two day** Workshop on **"Virtual Lab, Electronics"**, Conducted by IIT Bombay in association with MHRD, at FAMT, on **9th and 10th April 2011**.

Certification Courses/Refresher Courses Completed – 11

1. Successfully completed Microsoft Excel course with **LearnAndExcel** and certified as **"Microsoft Excel Expert"** on **04 June 2023**.
2. Completed a Professional Certification Training Course on **"Data Science Capstone"** offered by **Simplilearn** on **28/05/2023**.
3. Completed a Professional Certification Training Course on **"Tableau Training"** offered by **Simplilearn** from **25/11/2022 to 08/02/2023**.
4. Completed a Professional Certification Training Course on **"Deep Learning With Keras and Tensorflow"** offered by **Simplilearn** from **04/06/2022 to 26/06/2022**.
5. Completed a Professional Certification Training Course on **"Machine Learning Advanced Certification Training"** offered by **Simplilearn** from **05/03/2022 to 09/04/2022**.
6. Completed a Professional Certification Training Course on **"Data Science with Python"** offered by **Simplilearn** from **18/12/2021 to 05/02/2022**.
7. Completed a **6-week** online course on **"Data Structures"** authorized by UCSan Diego Higher School of Economics National Research University and offered through **Coursera** from **30/09/2021 to 11/11/2021**.

8. Completed a **6-week** online course on "**Understanding and Visualizing Data with Python**" authorized University of Michigan and offered through **Coursera** from **14/06/2020 to 30/07/2020**.
9. Completed **12 Week** NPTEL Online Certification Course on "**The Joy of Computing Using Python**" conducted by Indian Institute of Technology Madras from **July 2019 to October 2019** and achieved **Elite+Gold Certification**.
10. Completed **8 Week** NPTEL Online Certification Course on "**Introduction to Coding Theory**" conducted by Indian Institute of Technology Kanpur from **January 2019 to March 2019** and achieved **Elite Certification**.
11. Completed **12 Week** NPTEL Online Certification Course on "**Networks and Systems**" conducted by Indian Institute of Technology Madras from **July 2017 to October 2017** and achieved **Elite Certification**.

Technical Seminars/ Workshop/ Lecture/ Invited Talks As a Resource Person – 03

1. Delivered a Hands-on training on "**Application of AI & ML for an Industrial Automation**", to Graduate Engineer Trainees at L&T technical training centre, Madh, Mumbai from **24th to 25th July 2023**.
2. Conducted a One-day workshop on "**Python & its Application for Digital Signal Processing**" at Electronics Engineering Department of FAMT Ratnagiri and worked as a resource person for the same on **10th October 2021**.
3. Conducted a Hands-on workshop on "**Introduction to ARDUINO**", in Government Polytechnic, Mayem, Goa from **20th to 24th February 2017**.

Other Experience

College Level Administrative Responsibilities

1. **Library Advisory committee** member (2018-2022)
2. **Result analysis committee** member (2017-till date)
3. **Departmental T&P coordinator** (2012-2014) and (2021-till date)
4. **T&P publicity** and Posters/Banners preparation.
5. Member for documents preparation of **central NBA criteria (sub criteria 9.5)**
6. Member of **Document File System** preparation committee.
7. Worked as a team member of **NAAC Criteria V committee**.
8. Working as a team member of **NAAC Criteria VI committee**.
9. Worked as a **Teaching Assistant** for conduction of online ISTE – IITB workshop on "**Introduction to Research Methodologies**", from 25/06/2012 to 04/07/2012.
10. Worked as **Additional Senior Supervisor** for smooth conduction of **Second Half of 2022** (Evening Session) and **First Half of 2015** (Morning Session) examinations.

11. Worked as **Asst. CAP coordinator** for University cluster CAP center at FAMT-Engineering section for second half exam of 2013.

Subject Taught

Sr. No.	Name of the Subject	Year/Branch/Semester	Experience
1.	Digital Communication and Coding Techniques	Sem -V, ETRX	6 Years
2.	Analog and Digital Integrated Circuits	Sem- VI, ELECTRICAL	1 Year
3.	Wireless Communication/ wireless Mobile Theory/ Mobile Communication	Sem- VII, ETRX/ Sem-V, MCA	3 Year
4.	Continuous Time Signals and Systems	Sem- V, ETRX	1 Year
5.	Discrete Time Signals and Systems	Sem- VI, ETRX	2 Years
6.	Digital Signal Processing and Processors	Sem- V,VI,VII, ETRX	5 Year
7.	Filter Design	Sem-VII, ETRX	2 Years
8.	Signals and Systems	Sem- V/IV/VI, ETRX	5 Years
9.	Principles of Communication Engineering	Sem-IV, ETRX	2 Years
10.	Digital Logic Circuits	Sem-IV, ETRX	1 Year
11.	Digital Image Processing	Sem-VIII, ETRX	1 Year
12.	Computer Programming	Sem-II, FE	1 Year
13.	Python Programming	Sem-IV, MECH	1 Year
14.	Data Structure	Sem-III, CSE	1 Year
15.	Artificial Intelligence	Sem-V, CSE	2 Years
16.	Machine Learning	Sem-VI, CSE	1 Year
17.	Deep Learning	Sem-VII, CSE	1 Year