

Name : **Dr. Anand T.R.**

Designation : Assistant Professor (SG)

Department : Computer Technology

Qualification : MCA, M.Phil., SET, Ph.D.

Experience : Teaching – 16 years 5 months | Research - 10 years

Area of Specialization: Software Testing, Machine Learning

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Academic Qualifications

Degree	Branch	College / University	Year
Ph.D.	Computer Science	Dr. N.G.P. Arts and Science College	2023
M.Phil.	Computer Science	Sankara College of Science and Commerce	2013
MCA	Computer Applications	KGiSL Institute of Information Management	2008
BCA	Computer Applications	Cardamom Planters' Association College	2004

Additional Qualification

Dip. / Cert.	Area of Specialization	Institute / University / Agency Name	Year
SET	Computer Science	Bharathiar University	2012

Research Publications

1. T.R. Anand, V. Manimekalai, P. Nivetha, **A Comprehensive Review on Revolutionizing Agricultural Practices through IoT and Machine Learning**, IAPQR Transactions, Vol. 49, Issue. 02, No. 5, pp. 39-43, December 2024, ISSN: 0970-0102, ISSN: 0970-0102.
2. Poorana Senthilkumar S, Anand T R, Mohana Priya T, Karthik S, **Artificial Intelligence and Internet of Things Integration Taxonomy**, Int. J. of Research Publication and Reviews, Vol. 5, No. 4, pp. 6119-6124, April 2024, ISSN: 2582-7421.
3. T.R. Anand and Dr. B. Rosiline Jeetha, **Software Reliability Modelling with Infinite Testing Effort Function using Machine Learning Techniques**, Design Engineering, Issue 9, pp. 17796-17806, 2021, ISSN: 0011-9342.
4. T.R. Anand and Dr. B. Rosiline Jeetha, **PSO Model for Multi-objective Regression Test Suit Optimization Scenario Based on Test Case Prioritization for Efficiency Enhancement**, Journal of Fundamental & Comparative Research, Vol. VII No. 12(III) pp. 116-129, 2021, ISSN: 2277-7067.
5. T.R. Anand and Dr. B. Rosiline Jeetha, **Initializing the Software Regression Test Pool based on the Functional Dependency and Test Case Dependency**, Int. Journal of Pure and Applied Mathematics, Vol. 118 No. 9 Special Issue, pp. 123-136, Feb-2018, ISSN: 1314-3395.
6. **A Survey on Techniques, Frameworks and Metrics in Regression Testing**, Int. Journal of Computer Science & Engineering Technology, Vol. 7, Issue. 12, pp. 491- 496, Dec-2016, ISSN: 2229-334.

Other Publications

1. **Effective Classification of Thyroid Disease using Hybrid Random Forest and Convolutional Neural Network**, Proc. of the International Conference on Computational Intelligence and Communication Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Jan-25, ISBN: 978-81-966306-6-9.
2. **Comparison of MySQL and NoSQL and their recent trends**, Proc. of the Second International Conference on Recent Trends in Computer Science and Data Analytics, KPR College of Arts and Science and Research, 2-Feb-24.
3. **Social Media and Cybersecurity: Protecting Against Online Threats and Attacks**, Proc. of the Second International Conference on Recent Trends in Computer Science and Data Analytics, KPR College of Arts and Science and Research, 2-Feb-24.
4. **Load Balancing Securities**, Proc. of the Int. Conference on Recent Trends in Computer Science and Data Analytics, KPR College of Arts and Science and Research, 2-Feb-24.
5. **A Study on Empowering Women and Children Safety through IoT Techniques**, Proc. of the ICSSR Sponsored National Seminar on IOT Cyber Security: Challenges and Solutions for Social and Real-life Applications, Dr. N.G.P. Arts and Science College, 5-Jan-24.
6. **A Study on Voice-assisted Mobile Application for Campus Navigation**, Proc. of the Int. Conference on Computational Intelligence and Communication Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 4-Jan-24, ISBN 978-81-966306-6-9.
7. **Business Intelligence**, Proc. of the National Conference on Exploring the Technological Advancements in Business – The Future Perspective, Sri Ramakrishna College of Arts and Science, Coimbatore, 13-Sep-23.
8. **Bio-Inspired Algorithms and Fuzzy Expert System in Regression Test Case Optimization: A Survey**, Proceedings of the Nat. Conference on Computer Communication and Information Technology, pp. 110 – 112, Sep-16, ISBN 978-1-941505-56-4.
9. **A Study on Voice-assisted Mobile Application for Campus Navigation**, Proceedings of International Conference on Computational Intelligence and Communication Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 4-Jan-24.

Books Publication

1. **Security in Internet of Things (IoT)**, Dr. Poorana Senthilkumar, Dr. Rathi M, Dr. Manimekalai V, Dr. Anand T.R, First Edition, Priyam Publications, 2024, ISBN: 978-81-980635-7-1.

Book Chapters Publication

1. **Smart Solutions for climate resilience harnessing machine learning and sustainable WSNs**, Machine Learning for Environmental Monitoring in Wireless Sensor Networks, pp. 213-231, 23 September 2024, DOI: 10.4018/979-8-3693-3940-4.ch010, ISBN: 979-836933940-4.

2. **Sustainable Software Engineering**, Recent Technologies for Sustainable Development, edited by Dr. R. Rajeshwari, Sep 2024, pp. 1-33, Charulatha Publications, ISBN: 978-93-6260-000-0.

Presentation in Conference

1. **Effective Classification of Thyroid Disease using Hybrid Random Forest and Convolutional Neural Network**, International Conference on Computational Intelligence and Communication Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Jan-25.
2. **A Study on Voice-assisted Mobile Application for Campus Navigation**, International Conference on Computational Intelligence and Communication Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 4-Jan-24.
3. **The Robotic Technology: In Future**, National Conference on Emerging Trends in Mathematics with Computer Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 12 & 13-Sep-19.
4. **Bio Inspired Algorithms & Fuzzy System in Regression Test case Optimization: A Survey**, National Conference on Computer Communication and Information Technology, Dr. N.G.P. Arts and Science College, Coimbatore, 28-Sep-16.

Participation in Conference / Seminar

1. Int. Conference on Computational Intelligence and Communication Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Jan-25.
2. Int. Conference on Computational Intelligence and Communication Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 4-Jan-24.
3. Int. Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 28 & 29-Feb-20.
4. Int. Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 9 & 10-Aug-18.
5. Int. Seminar on Research Methodology, Asan College of Arts and Science, Karur, 5-Oct-16.
6. Conference on Computer Communication and Information Technology, Dr. N.G.P. Arts and Science College, Coimbatore, 28-Sep-16.
7. Conference on Emerging Education Models for 21st Century Learner, Association of Principals of Colleges of Bharathiar University, Dr. N.G.P. Arts and Science College, Coimbatore, 1-Aug-15.
8. Nat. Seminar on Cybersecurity Awareness and Defense Techniques, Dr. N.G.P. Arts and Science College, Coimbatore, 25-Aug-14.
9. Nat. Conference on Research Issues in Computer Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 21-Feb-14.

10. DST Sponsored Inspire Internship Science Camp, Dr. N.G.P. Arts and Science College, Coimbatore, 21 to 25-Jul-14 and 18 to 22-Nov-13.
11. Seminar on School Education – Some Reflections, Sankara College of Science and Commerce, Coimbatore, 3-Sep-13.

Participation in Orientation / Training Programme & Short-Term Course

1. **Innovation Ambassador Training** (Foundation Level), MoEs Innovation Cell & AICTE, 30-Jun-21 to 30-Jul-21.
2. UGC Sponsored Short Term Course on **Research Methodology**, UGC Human Resource Department Centre, Bharathiar University, Coimbatore, 18 to 24-Jan-18.
3. One day **Sensitization Programme for NSS Programme Officers and Unit Leaders on Disability Management**, Bharathiar University, Coimbatore & UDIS Forum, 20-Jan-12.
4. Training Programme on **Teaching Software Testing Techniques**, Department of Extension and Career Guidance, Bharathiar University, Coimbatore jointly with Prakat Solutions, Bengaluru, 4 to 7-Jan-11.

Participation in Faculty Development Programme

1. **MongoDB Associate Developer**, ICT Academy, 25-Aug-25 to 30-Aug-25.
2. **Bootcamp on Big Data and Data Science**, C-DAC, Noida in association with RV University, 21-Jul-25 to 01-Aug-25.
3. **Microsoft Azure AI Engineer**, E & ICT Academy, 03-Feb-25 to 07-Feb-25.
4. **AI for Educators**, Periyar Maniammai Institute of Science and Technology, Vallam, 18-Mar-24 to 23-Mar-24.
5. **Teaching Strategies - A Pedagogy**, SRM Institute of Science and Technology, Ramapuram, 16-Feb-24 to 22-Feb-24.
6. **Empowering education for innovation - A NEP perspective**, Dr. N.G.P. Arts and Science College, Coimbatore, 30-Jun-23 to 4-Jul-23.
7. **Data Science Specialization using Python** (Online), Dr. SNS Rajalakshmi College of Arts and Science, Coimbatore, 19 to 23-Jun-23.
8. **Effective Teaching & Learning Processes**, Yavarum Kelir Skill Development Association jointly with Marudhar Kesari Jain College for Women, Vaniyambadi, 12 to 18-Sep-21.
9. **Research Methodology and Pedagogy for Tertiary Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 15 to 21-Jun-21.
10. **Teaching Learning Enhancement**, Dr. N.G.P. Arts and Science College, Nov-19.
11. **NAAC Revised Accreditation Framework and OBE Assessment Methodology**, Dr. N.G.P. Arts and Science College, 27-May-19 to 2-Jun-19.

12. **Quality Measures in Higher Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 3 to 9-Dec-18.
13. **Introduction to R Programming**, ICT Academy and Dr. N.G.P. Arts and Science College, Coimbatore, 30 & 31-Aug-18.
14. **Cloud Infrastructure and Services**, ICT Academy, Tamil Nadu and Bharathiar University, Coimbatore collaboratively with EMC², 23 to 27-Feb-15.

Participation in Workshop

1. **Virtual Lab**, Dr. N.G.P. Arts and Science College and Amrita Viswa Vidyapeedam, Kollam, 24-Jun-25.
2. **DEVOPS**, SRM Institute of Science & Technology, 16 to 24-Jun-23.
3. **Big Data Analytics in Clinical Research**, Dr. N.G.P. Arts and Science College, Coimbatore, 18 & 19-Mar-21.
4. DBT Sponsored National Workshop on **Data Analytics and its applications in Biotechnology**, Dr. N.G.P. Arts and Science College, Coimbatore, 14 & 15-Feb-19.
5. **MATLAB for Solving Research Problems**, Dr. N.G.P. Arts and Science College, Coimbatore, 31-Jul-17.
6. IEEE Authorship Workshop on **How to Publish a Technical Paper with IEEE**, Coimbatore Institute of Technology, Coimbatore, 25-Oct-16.
7. **The Art of Writing Research Paper**, Kongu Engineering College, 19-Dec-15.
8. **Android Programming**, Bharathiar University, Coimbatore, 20 & 21-Mar-15.
9. **Science Academies' Three Days Lecture Workshop on Current Trends and Directions in Computer Science Research**, Dr. N.G.P. Arts and Science College, 3 to 5-Oct-13.
10. **Science Academies' Two Days Lecture Workshop on Research Issues in Digital Image Processing**, Dr. N.G.P. Arts and Science College, Coimbatore, 25 to 26-Sep-12.
11. **Enhancing Teaching Skills**, MISSION 10X - WIPRO Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 6 to 8-Aug-12.

MOOC Certifications

1. **Full Stack Java**, Swayam Plus, 04-May-2025.
2. **Object Oriented Programming using Python**, Infosys Springboard, 14-May-2025.

Organizing role in Conference / Seminar / Workshop

1. Organizer, **Guest Lecture on Innovation and Startup**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 22-Aug-23.

2. Organizer, **Workshop on Entrepreneurship: A Bharathian Perspective**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 20-Feb-23.
3. Organizer, **Workshop on Entrepreneurial Skills for Youth**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 16-Feb-23.
4. Organizer, **Value Added Session on Financial Literacy**, organized by **BFSI Sector Skill Council** in collaboration with National Centre for Financial Education (NCFE), and Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 17-Nov-21.
5. Organizer, **Online Lecture on Mental Agility and Entrepreneurship**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 7-Jun-21.
6. Organizer, **Online Lecture on Consumer Responsibilities**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 7-Jun-21.
7. Organizer, **Online Lecture on Automation in Software Testing**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 4-Jun-21.
8. Organizer, **Online Lecture on IPR and Patenting Strategies**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 4-Jun-21.
9. Organizer, **Workshop on Vedic Mathematics for Competitive Examinations**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Mar-21.
10. Organizer, **Workshop on Efficacy of Speaking**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 19-Feb-20.
11. Organizer, **Workshop on Blouse Making**, Center for Skill Development and Department Costume Design & Fashion, Dr. N.G.P. Arts and Science College, Coimbatore, 29&30-Jan-20.
12. Organizer, **Workshop on ABC of Speaking**, Center for Skill Development, Dr. N.G.P. Arts and Science College, Coimbatore, 4-Jan-20.
13. Organizer, **Workshop on Future Skills – a NASSCOM (IT & ITeS Sector Skill Council) initiative**, Center for Skill Development, Dr. N.G.P. Arts and Science College, 29-Jun-18.
14. Organizing Committee member, International Conference on Computational Intelligence and Communication Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 4-Jan-24.
15. Organizing Committee member, National Conference on Advanced Computing Sciences, Dr. N.G.P. Arts and Science College, Coimbatore, 16-Mar-23.
16. Organizing Committee member, National Workshop on Big Data Analytics in Clinical Research, Dr. N.G.P. Arts and Science College, Coimbatore, 18 & 19-Mar-21.
17. Organizing Committee member, Second International Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 28 & 29-Feb-20.
18. Organizing Committee member, DBT Sponsored National Workshop on Data Analytics and its Applications in Biotechnology, Dr. N.G.P. Arts and Science College, 14 & 15-Feb-19.

Invited Speaker / Session Chair / Reviewer

1. Reviewer, **Second International Conference on Recent Trends in Computer Science and Data Analytics – 2024** (ICRTCSDA'24), KPR College of Arts Science and Research, Coimbatore, 2-Feb-24.
2. Session Chair, **ICSSR Sponsored National Seminar on IOT Cyber Security: Challenges and Solutions for Social and Real-life Applications**, Dr. N.G.P. Arts and Science College, Coimbatore, 5-Jan-24.
3. Invited Speaker, **Guest Lecture on Artificial Intelligence**, AVP College of Arts and Science, Thiruppur, 26-Aug-22.
4. Invited Speaker, **Guest Lecture on Software Testing**, PARKS College, Thiruppur, 6-Mar-19.
5. Invited Speaker, **Session on Placement Readiness**, Dept. of Information Technology, Dr. N.G.P. Arts and Science College, Coimbatore, 29-Jan-19.
6. Invited Speaker, **Guest Lecture on Data Structures**, Sri Krishna Adithya College of Arts and Science, Coimbatore, 14-Sep-17.
7. Invited Speaker, **Guest Lecture on Placement Readiness**, TERFs Academy College of Arts and Science, Thiruppur, 4-Jan-17.
8. Invited Speaker, **Guest Lecture on Software Testing**, Subramanya Arts and Science College, Palani, 10-Aug-12.

Editorial / Reviewer Board Member

1. Editorial Board Member, Journal of Information Security System and Cyber Criminology Research, since June, 2024.
2. Editorial Board Member, Journal of Intelligent Data Analysis and Computational Statistics, since June 2024.
3. Reviewer, Journal of Cyber Security, Privacy Issues and Challenges, since May 2025.
4. Reviewer, Journal of Hacking Techniques, Digital Crime Prevention and Computer Virology, since March 2025.
5. Reviewer, Journal of Cryptography and Network Security, Design and Codes, since Jan, 2025.
6. Reviewer, Journal of Big Data Technology and Business Analytics, since Oct, 2024.
7. Reviewer, Journal of Cyber Security in Computer System, since June, 2024.

Membership in Professional Bodies

Name of the Professional Body	Nature of Membership	Duration
IAENG (Member ID: 144151)	Life time	-
Internet Society (Member ID: 2307432)	Life time	-