



Sri Devaraj Urs Educational Trust (R.)
R. L. JALAPPA INSTITUTE OF TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to VTU, Belagavi, Accredited NAAC “A” Grade)
Kodigehalli, Doddaballapur- 561 203

Department of CSE (Artificial Intelligence and Machine Learning)

Faculty Name	Dr. Manjunatha B N	
Designation	Associate Professor & HoD	
Area of Interest	Artificial Intelligence, Machine Learning, Context Computing	
Email ID	manju.master@gmail.com manjunathabn@rljit.in	
Research Identity	Vidwan ID: 388741 ORCID ID: https://orcid.org/0000-0002-3213-0809?lang=en SCOPUS ID: 58405270300 Google Scholar: https://scholar.google.com/citations?user=STYJbUgAAAAJ&hl=en	

EDUCATION:

- Ph. D (CS&E) awarded in the year 2022 from R&D Centre Malnad College of Engineering, Hassan, VTU, Belagavi.
- M. Tech (CS&E) from S.J.C. Institute of Technology, Chikkaballapura, VTU with 72.33% during 2011-14.
- B.E (IS&E) from R.L. Jalappa Institute of Technology, Doddaballapur, VTU with 69% during 2005-09.

PROFESSIONAL WORK EXPERIENCE: 16 Years

1. Currently working as an Associate Professor & Head in Dept., of CS&E (AI & ML) at R.L.

Jalappa Institute of Technology, Doddaballapur from October 25th 2023 to till date.

2. Worked as an Associate Professor in Dept., of CS&E at R.L. Jalappa Institute of Technology, Doddaballapur from December 6th 2022 to October 24th 2023.
 3. Worked as an Assistant Professor in Dept., of CS&E at R.L. Jalappa Institute of Technology, Doddaballapur from March 23rd 2010 to December 5th 2022.
 4. Worked as a Lecturer in Dept., of CS&E at Sambhram Institute of Technology, Bangalore from October 16th 2009 to March 26th 2010
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Professional Memberships:

- Life member, Indian Society for Technical Education, New Delhi.
 - Life member, Associate Member of Institution of Engineers, India.
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Technical Exposure:

Languages: C, C++, java, SQL Database Programming.

Operating System: Windows, Dos, XP, Vista, Ubuntu, Fedora.

Concepts: Data structure with C, Computer Networks, Network Management, Java, Oracle

Subjects of Interest:

- Programming languages like C, C++, Java, Python
- Data Structures
- Computer Networks
- Advanced Operating systems
- Advanced Computer Architecture
- Object Oriented Modeling & Design

- ADA
 - UNIX Shell and System Programming
 - Data Communication
 - Network Management Systems
 - Management and Entrepreneurship for IT Industry
 - Storage Area Network
 - IoT
 - AI & ML
 - Computer Graphics & Visualization
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Research Publications:

1. "Herbal Plant Identification Using Machine Learning Algorithms" International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), Volume 13, Issue 5, May 2025 ISSN: 2320-9798 | DOI: 10.15680/IJIRCCE.2025.1305154
2. "Lung Cancer Detection Using Deep Learning" International Journal of Research Publication and Reviews, Volume 6, Issue 5 ISSN: 2582-7421.
3. "Anomaly Detection in Medical Imaging based on Multi – Head Attention with Temporal Convolutional Networks" for 3rd International Conference on 6G Communications Networking and Signal Processing (SCCNSP – 2024) published in Springer.
4. "A Comprehensive Study of Application Domains of IoT and AI in Horticulture: A case study of Plant LeafDisease Detection and Classification using CNN", published in Letters in High Energy Physics, ISSN: 2632-2714 volume 20024.
5. "Hybrid Optimization Algorithm for Effective Clustering algorithm and Routing Protocol in MANET", Published in 2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT), IEEE Xplore 979-8-3503-1341-3/23/\$31.00 ©2023 IEEE | DOI: 10.1109/EASCT59475.2023.10392304
6. "Deep Learning for Sentiment Analysis: Exploring the Power of Deep Learning Techniques in Opinion Mining", Published in 2023 International Conference on Evolutionary

7. “Enhancing secrecy using hybrid elliptic curve cryptography and Diffie Hellman key exchange approach and Young’s double slit experiment optimizer based optimized cross layer in multihop wireless network” published in Measurement: Sensors (Science Direct), Elsevier Ltd 2024, <https://doi.org/10.1016/j.measen.2023.100967>
8. “Quantum squirrel search algorithm based support vector machine algorithm for brain tumor classification” published in Internet technology Letters, 2023, e484.
9. doi: 10.1002/itl2.484
10. “Micro Services and its Interaction with API”, is presented 7th International Conference on “Artificial intelligence-Machine Learning & Advanced in Engineering Science and Technologies (ICAIMLAEST-2023)” held on 9th August 2023, organized by R. L. Jalappa Institute of Technology, Doddaballapur-561 203 and published in the International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), ISSN (Online) 2581-9429, Volume 3, Issue 2, August 2023. DOI: 10.48175/IJARSCT-12708.
11. “Food Waste Reduction System”, is presented 7th International Conference on “Artificial Intelligence-Machine Learning & Advanced in Engineering Science and Technologies (ICAIMLAEST-2023)” held on 9th August 2023, organized by R. L. Jalappa Institute of Technology, Doddaballapur-561 203 and published in the International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), ISSN (Online) 2581-9429, Volume 3, Issue 2, August 2023. DOI: 10.48175/IJARSCT-12709.
12. “Information Retrieval on Enhanced Multiple Image Capture using Google Reverse Image Search Engine”, is presented 7th International Conference on “Artificial intelligence-Machine Learning & Advanced in Engineering Science and Technologies (ICAIMLAEST-2023)” held on 9th August 2023, organized by R. L. Jalappa Institute of Technology, Doddaballapur-561 203 and published in the International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), ISSN (Online) 2581-9429, Volume 3, Issue 2, August 2023. DOI: 10.48175/IJARSCT-12710.
13. “A Successful Spam Detection Technique for Industrial IoT Devices based on Machine Learning Techniques”, Published in Proceedings of the Second International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2023) held on 04th to 06th May 2023, IEEE Xplore Part Number: CFP23BC3-ART; ISBN: 978-1-6654-5630-2, DOI:

14. “Software flaw using a Supervised Machine Learning Algorithm to Predict Bugs”, published in International Journal of Research and Analytical Reviews (IJRAR.ORG), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 10, Issue 2, May 2023.
15. “Identification of Plant Leaf Disease”, published in International Journal of Research and Analytical Reviews (IJRAR.ORG), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 10, Issue 2, May 2023.
16. “IPv4-IPv6 Impact on IoT”, is presented and published in the “International Conference on Internet of Things, Communication, Intelligence and Computing(IC-ICIC-2023) held on 5th & 6th May 2023 organized by Shridevi Institute of Engineering and Technology, Tumakuru, Karnataka, India- 572106.
17. “Study of Blended learning of Artificial Intelligence in Cyber Security”, is presented and published in the “International Conference on Internet of Things, Communication, Intelligence and Computing(IC-ICIC-2023) held on 5th & 6th May 2023 organized by Shridevi Institute of Engineering and Technology, Tumakuru, Karnataka, India- 572106.
18. “Event Detection Based on Blockchain and by using Natural Language Processing and Machine Learning verify Trust”, published in Science, Technology and Development, ISSN : 0950-0707, Volume XI, Issue VII, July 2022.
19. “Design and Development of an Education in A Context Aware Environment Using AI”, published in Science, Technology and Development, ISSN : 0950-0707, Volume XI, Issue VII, July 2022.
20. “A Semantic Knowledge for Distributed Smart Environment”, published in International Journal of Scientific Research & Engineering Trends, Online ISSN: 2395-566X, Volume 8, Issue 3, May-Jun 2022.
21. “Machine Learning for Phone Call Phishing Detection” is presented in the 4th National Conference on Advancements in Computer Science & Engineering – 2022 held on 11th May, 2022 Organized by Department of Computer Science and Engineering, New Horizon College of Engineering, Bengaluru, Karnataka, India in Association with VTU, Belagavi, Silver Jubilee Celebrations and Computer Society of India and published in International Journal of Scientific Research in Science, Engineering and Technology Print ISSN: 2395-1990 | Online ISSN : 2394-4099 (www.ijrsrset.com), Volume 9, Issue 11, may 2022.

22. “A Study on Self Driving Cars” is presented in the 4th National Conference on Advancements in Computer Science & Engineering – 2022 held on 11th May, 2022 Organized by Department of Computer Science and Engineering, New Horizon College of Engineering, Bengaluru, Karnataka, India in Association with VTU, Belagavi, Silver Jubilee Celebrations and Computer Society of India and published in International Journal of Scientific Research in Science, Engineering and Technology Print ISSN: 2395-1990 | Online ISSN : 2394-4099 (www.ijrsrset.com), Volume 9, Issue 11, may 2022.
23. Research article “Context Aware Management using Semantic Representation approach in Ubiquitous Environment”. –International Journal of Business Intelligence and Data Mining, got acceptance.
24. Research article “An Efficient Trust-based Context-aware Authentication Mechanism over Pervasive Computing Environment”. –International Journal of Intelligent Engineering and Systems (IJIES), got acceptance.
25. “Clustering and Detection of Liver Disease in Indian Patient Using Machine Learning Algorithms”, Journal of Xidian University, ISSN No:1001-2400, Volume 15, Issue 12, 2021.
26. “IoT Based Smart Home Using Edge computing”, Natural Volatilities and Essential Oils (NVEO) 2021;8(5):9279-9285.
27. “Transforming the medical image across the spectrum using AI and ML”, International Journal of Advances in Engineering and Management (IJAEM), ISSN: 2395-5252, Volume 3, Issue 8 August 2021, pp: 298-304 DOI 10.35629/5252-0308298304.
28. “Design and Development of efficient context-aware infrastructure for Realtime application: Smart-home”, Journal of Huazhong University of Science and Technology ISSN-1671-4512, Volume 50, Issue 3, March 2021 (Scopus Indexed).
29. “A Comprehensive Survey on the issues in Context Aware computing issues for Real time application”, International Journal of Advanced Research in Computer and Communication Engineering, ISSN: 2278-1021 , Volume 9, Issue 02 DOI 10.17148/IJARCE.2020.9215, February 2020.
30. “Security solution for wireless sensor networks” is presented in the National Conference on Innovative & Emerging Trends in Engineering& Management (NCIETEM-2013) held on 22nd & 23rd March 2013, at Alva’s Institute of Engineering & Technology, Moodbidri.
31. “Authentication and Security Issues in Wireless networks and quantum cryptography a new

security approach” is presented in the national conference on Computing Technologies and Trends held by Department of CSE, RLJIT, on 20th and 21st March 2013.

32. Published a national level conference paper on “D Card: A Distributed mobile phone based system for Relying Verified friendship” in BTLIT, Bangalore, on 30th April 2013.
33. Published a national level conference paper on “Data Management System in Mobile Cloud Computing Environment for Medical Applications with Authentication” in SAIT, Bangalore, on 11th and 12th May 2012.

Participation in Conferences / FDP / Seminars / Workshops:

1. Attended one week FDP on “Exploring Emerging Technologies in Next-gen communication Networks” from 25th to 30th November 2024 under AICTE Training And Learning(ATAL) Academy Program organized by Department of Computer Science & Engineering, R. L. Jalappa Institute of Technology.
2. Attended a one-day NBA Awareness Workshop on Outcome-Based Education and Accreditation at MSRIT.
3. Participated in a two-day workshop on the Prathama Academic Leadership Program by Bosch at Electronic City.
4. Attended two days Faculty Training Programme on Entrepreneurship Development Programme on 17th and 18th August 2023, which is being organized under Project Code Unnati in collaboration with UNDP, SAP labs India, The government of Karnataka and Karnataka Skill Development Corporation, held at Samarthya Soudha, Doddaballapur 561 203.
5. One Week AICTE–VTU Joint Teachers Training Programme on “Introduction to Internet of Things (IoT)” from 17th to 21st April 2023 Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101.
6. Five-day online National-Level Workshop on “Deep Learning and its Applications” from 6th March 2023 to 10th March 2023 organized by the Department of Computer Science & Engineering, Kalpataru Institute of Technology, Tiptur.
7. Six day Faculty Development Program on “Object Oriented Programming with Java”, organized by Department of CSE & ISE, SJCIT, Chikballapur – 562 101 from 28th November 2022 to 3rd December 2022.

8. Five day Faculty Development Program on “Thrust Areas in AI – A Multidisciplinary Approach ”, organized by Department of Information Science & Engineering, JSS Academy of Technical Education, Bengaluru – 560 060 from 7th Feb 2022 to 11th Feb 2022.
9. One day virtual workshop on “Sources of Research Grants & Art of Writing a Research Paper”, conducted by Department of ME, R L Jalappa Institute of Technology, Doddaballapura on 03rd June 2021.
10. Attended one week FDP on “Modern Techniques for Wireless Communication” from 17th to 21st May 2021 under AICTE Training And Learning(ATAL) Academy Program organized by Department of Electronics Engineering, Madhav Institute of Technology & Science, Gwalior.
11. Five Day Online Workshop on “Linux “from 10th to 14th May 2021 organized by VIT, Chennai.
12. Attended one week FDP on “Block Chain” from 3rd November 2020 to 7th November 2020 under AICTE Training And Learning(ATAL) Academy Program organized by Malnad College of Engineering.
13. Five-Day Faculty Development Program on “ Machine Learning Using Python” from 25th May 2020 to 29th May 2020 organized by Reva University School of Computing and Information Technology in association with ATS Learning Solutions.
14. One Week Faculty Development Program on “Data Science” from 18th April 2020 to 22nd April 2020. Under AICTE Training And Learning (ATAL) Academy Program organized by Department of E&CE, Indian Institute of Information Technology(IIT Nagpur).
15. One day workshop on Advances in wireless communication networks organized by the Department of ECE, RLJIT Doddaballapur, on 30th April 2010.
16. One day online workshop on “GUI creation for Image processing applications using MATLAB”, conducted by Department of E&CE, R L Jalappa Institute of Technology, Doddaballapura on 14th May 2020.
17. Two Weeks Faculty Development Program on “LaTex” from 17th April 2020 to 30th April 2020 organized by Department of CS&E, Gopalan College of Engineering and Management in association with IIT Bombay-Spoken Tutorial.
18. Two days Faculty Development Program on “Research Database Management & Software Tools” on 7th & 8th February 2020, in association with IETE Bengaluru Centre held at Research Centre-ECE, Sambhram Institute of Technology, Bengaluru-560097.

19. Two days National Level Workshop on “Drone Development”, from 11th & 12th October 2019. Organized by Department of Computer Science & Engineering, R L Jalappa Institute of Technology, Doddaballapur and Technically Organized by EduxLabs Gurugram in association with NSS IIT-Roorkee.
20. Two day Faculty Development Program on “Saksham – Microsoft Azure & Cognitive Services” in association with Microsoft at JSS Academy of Technical Education, Bengaluru – 560 060 from 28th September 2018 to 29th September 2018.
21. Two days, hands-on workshop on, “Python Application Programming”, held during 15th and 16th February 2018, organized by Department of Computer Science & Engineering, R L Jalappa Institute of Technology, Doddaballapur- 561 203.
22. Android Developer Fundamentals Faculty training from 28th August to 1st September 2017, held at SJCIT, Chickballapur and association with Google Developers Pvt Ltd.
23. One Day Faculty Development Program on “Importance of Research in Present Scenario and Faculty Skills” held at Sri Devaraj Urs Institute of Management, Doddaballapur on 19th October 2019.
24. Two Day Workshop on “Research Methodology” for Ph. D course work aspirants, held at Cambridge Institute of Technology, Bengaluru and Association with Visvesvaraya Technological University, Belagavi, during 21st and 22nd, October 2016.
25. Two days, hands-on workshop on, “Python Programming”, held during 3rd – 4th , August 2016, organized by Department of Computer Science & Engineering, Acharya Institute of Technology, Bangalore- 560 107.
26. Five day Faculty Development Program on Big Data Analytic organized by the Department of ISE, SJBIT, Bangalore, on 27th to 30th January 2014.
27. Two day National Workshop on NS2 and LATEX organized by the Department of ISE, Sambhram Institute of Technology, Bangalore, on 4th and 5th October 2012.
28. One day Faculty Development Program on The Journey to Private Cloud with EMC offered under EMC Academic Alliance program at SJCIT, Chickballapur, 26th March 2011.
29. As a delegate in the international conference on computer science and information technology ICCSIT-2010 held at the Department of ISE, RLJIT Doddaballapur, on 17th and 18th September 2010.
30. One day Faculty Development Program on Recent Trades in Fluid mechanics and its Applications organized by the Department of Mathematics, RLJIT Doddaballapur, on 23rd

August 2010.

31. One day Faculty Development Program organized by the Department of ISE, RLJIT Doddaballapur, on 5th May 2010.

Book Publication Details:

1. Published a book in REST publisher with ISBN 978-81-971629-2-3 entitled **“Data Science Artificial Intelligence using Python”**.
2. Published a book in Scientific international publication House with ISBN 978-93-5757-727-4 entitled **“Fundamentals of Embedded System and IoT”**.
3. Published a book in LAMBERT Academic Publishing with ISBN 978-620-3-46384-2 entitled **“EDA-Education Data Analysis A New Approach using Cloud and Smart Phone Technology (CSPT)”**.

Funding Projects:

1. Submitted Research Proposal entitled “Groundwater Protection for Smart Agriculture using Artificial Intelligence and Image Processing” for funding Rs. 3,00,000/- (Three Lakh) in International Collaboration for Joint Research between VTU and FOM University, Germany.
2. Submitted Research Proposal entitled “Identification of Plant Leaf Diseases” for funding Rs.8,500/- in 46th Series of Student Project Programme, KSCST-2023.
3. VTU Sponsored Student Project – Rs. 5,000/- during 2020-21.
4. KSCST-45th Series of Student Project Program(SPP) 2021-22 – Rs. 4,000/-

Patents:

1. Published a Design patent entitled “AI powered Cybersecurity Threat Detection & Mitigation Device”, Applied date: 4th July 2024 and Application Number: 422314-001.
2. Published a patent entitled” An Investigation on the use of machine learning methods for predicting employee performance”, <https://search.ipindia.gov.in/IPOJournal/Journal/Patent>

Application No.202341064113 A and Publication Date: 06/10/2023.

3. Published a patent entitled” Wireless Network System of Machine Vision based Buoys in Sea for Pirate Boat Identification”, <https://search.ipindia.gov.in/IPOJournal/Journal/Patent> Application No.202331020814 A and Publication Date: 06/04/2023.
4. Published an UK Design patent entitled “Computer Data storage and Transfer Device”, <https://www.registered-design.service.gov.uk/find/> Grant date: 27th April 2023 and Design Number: 6274216.

Invited as a Judge/Conference Session Chair:

1. Attended as a Session Chair for 11th International Conference on Contemporary Engineering and Technology 2023 (ICCET) held at Prince Shri Venkateshwara Padmavathy Engineering College, Chennai, Tamil Nadu, India on 1st and 2nd May 2023(Virtual Mode).
2. Attended as a judge for Project Exhibition-2023 organized by Brindavan College of Engineering, Bengaluru on 5th May 2023.
3. Attended as a Session Chair for 14th International Conference on Recent Engineering and Technology (ICRET) 2023 organized by Organization of Science & Innovative Engineering and Technology, Chennai, India in collaboration with Samarkand State University, Uzbekistan in association with New Horizon College of Engineering, held on 25th June 2023(Virtual Mode).

Invited Lectures:

1. Delivered a lecture on “Real Time Application Data structure” at R. L. Jalappa Polytechnic, Doddaballapur 561 203 on 21st July 2022.
2. Delivered a lecture on “Computer Basics” for N.S.Q.FIT/ITES students from level 1 to Level 4 at GJCHS and GPUC, Doddaballapur 561 203 on 30th October 2022.

Awards and Honors:

1. Received Best Faculty Award 2023–24 from R. L. Jalappa Institute of Technology, Doddaballapur – 561203.
2. Received Best Faculty (Special Category) Award of the year 2022-23 from the R L Jalappa Institute of Technology, Doddaballapur -561 203

3. Received State Level Best Teacher Award for the outstanding contribution in the Academics from the Challengers Youth Forum (R.), Doddaballapur -561 203 on 5th September 2022.
 4. Received “Naree shaskthi Puraskar “on the occasion of World Women’s Day -2023 from Shree Muthyalamma Kala Saangha (R.) Doddaballapur-561 203 for my research work on 12th March 2023.
 5. Received Best Paper Presentation Award entitled on “Micro Services and its Interaction with API”, at 7th International Conference on “Artificial Intelligence-Machine Learning & Advanced in Engineering Science and Technologies (ICAIMLAEST-2023)” held on 9th August 2023, organized by R. L. Jalappa Institute of Technology, Doddaballapur-561 203.
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Additional Responsibilities:

1. Internal Quality Assurance Cell (IQAC) Coordinator, RLJIT from 1st February 2023 and till date.
2. As a Convener organized “Poster presentation on AI & ML” held on 09th August 2023.
3. As the IQAC Head, introduced the Best practices in the college like the Best Faculty Award, the Best Department Award, the Best Non-Teaching Staff Award, Academic Audit, Student Supporting Program etc., and Quality initiated in all the aspects.
4. As a Convener organized One-day workshop on “Overview of Mobile Technology” presented by Dr. Sanjay K Nagendra, Senior Consultant, SARD Division, SONY India Software Center Private Limited, Bengaluru, on 3rd April 2023, through IQAC.
5. As a Convener organized One day workshop on “Innovative Teaching Methodology” presented by Dr. P. Vijayakarthik , Principal, RLJIT on 3rd June, 2023, through IQAC.
6. Board of Examination (BoE) Member at Department of IS&E, NMIT, Bangalore.
7. Worked as a Co-Convener for TECHNO UTSAV-2022(Inter College Technical fest) organized by Department of Computer Science & Engineering, RLJIT on 21st December 2022.
8. Organized an Inter School Quiz Computation, facilitated by Nethaji High School, Kanasavadi held on 08/12/2022.
9. Worked as a Faculty Coordinator for Student Industrial Trip (GOA - 13th November to 17th November 2023).

10. Vice- President - RLJIT Alumni Association (R.) Doddaballapur during 2015-2022.
 11. Worked as a College level Magazine Coordinator (SMRUTHI), College Newsletter (E - SUDDI), NSS, College Fest (SANTHASA), etc....
 12. Worked as a coordinator at various works in department level both academics and cultural activities.
 13. Worked as a Faculty Coordinator for HEARTFULNESS ESSAY EVENT- 2020 Organized by Shri Ram-Chandra Mission United Nations Information Center and the Heartfulness Education Trust and got Certificate of Appreciation to the Institution.
 14. Worked as a Faculty Co-ordinator for Six week Meditation classes for Resilience in Crisis - 2020.
 15. Conducted Awareness of Covid-19 Online Quiz to the Society in 2020.
 16. Worked as a Faculty Co-ordinator for Two days national level workshop on “Drone development” from 11th to 12th October 2019 technically organized by EduxLabs Gurugram in association with NSS IIT-Roorkee.
 17. Convener for CS-TECH DAY 2K17(Inter Department Technical Event) organized by Department of Computer Science & Engineering, RLJIT on 25th April 2017.
 18. Co-editor for National Conference on Computing Technologies and Trends held by Department of CS&E, RLJIT, on 20th and 21st March 2013.
 19. Conducted Motivation Classes and Basic Knowledge of Computer Classes for Rural Students around Doddaballapur during 2011.
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Contact Details:

Dr. Manjunatha B N

S/O Narasappa B N

#326/1, “Sri Lakshmi Narasimha Nivasa”,

RLJIT Road, Opp. Kerosene Bunk, Shanthi

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