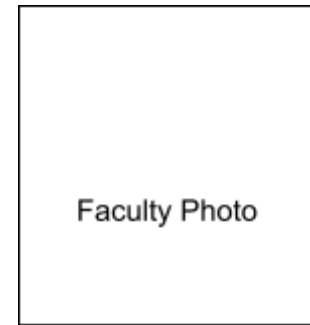


# Faculty Profile

## Brief Profile

I am Anitha Sandeep, an Assistant Professor in the Department of Computer Science and Engineering at RV College of Engineering (RVCE), Bengaluru, India. I have been a part of RVCE since Sep 2017. Prior to joining RVCE, I worked as a lecturer, assistant professor, associate professor in various engineering colleges.



My primary research interests are in the areas of Image processing. I have a YouTube channel where you can find videos related to C programming, discrete mathematics, theory of computation, and game theory.

## Personal Information

- **Name:** Dr. Anitha Sandeep
- **Designation:** Assistant Professor
- **Department:** Department of Computer Science and Engineering
- **Email:** anithasandeep@rvce.edu.in
- **Phone:** 9037984172

**Google Scholar :** <https://scholar.google.com/citations?user=CdJRQEAAAAAJJ>

**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=57160021100>

## Domain of Expertise

## Research Focus

- **Primary Area:** Image processing, Machine Learning (ML)
- **Allied Areas:**
  - o Healthcare

## Academic Qualifications

- **Ph.D.:** [Computer Science & Engineering], [Dayananda Sagar University], [2025]
- **M.Tech:** Compute Science and Engineering, VTU, 2002
- **B.E.:** Compute Science and Engineering, Kuvempu University, 1998

## Professional Experience

Experience			
S.No	Institute/College/Industry	Job Title	Duration
1	SJM Institute of Technology, Chitradurga, Karnataka	Lecturer	2-11-1998 to 2-11-2000 2 years
2	SJM Institute of Technology, Chitradurga, Karnataka	Lecturer	Feb 2002 to Aug 2002 7 months
3	RV College of Engineering, Bangalore, Karnataka	Lecturer	26-8-2002 to 13-05-2004 1 year 8.5 months
4	St.Joseph Engineering College, Mangalore, Karnataka	Senior Lecturer	27-8-2004 to 28-2-2006 1 year 6 months
5	St.Joseph Engineering College, Mangalore, Karnataka	Assistant Professor	1-3-2006 to 8-12-2006 9 months
6	BNM Institute of Technology, Bangalore, Karnataka	Senior Lecturer	1-3-2007 to 17-4-2007 1.5 months
7	Yellamma Dasappa Institute of Technology, Bangalore, Karnataka	Senior Lecturer	11-6-2007 to 30-9-2007 3.5 months
8	Mar Baselios college of Engineering and Technology Trivandrum, Kerala	Assistant Professor	7-7-2008 to 30-6-2010 2 years
9	Mar Baselios college of Engineering and Technology Trivandrum, Kerala	Assistant Professor Senior Grade	1-7-2010 to 30-6-2012 2 years
10	Mar Baselios college of Engineering and Technology Trivandrum, Kerala	Associate Professor	1-7-2012 to 12-4-2017 4 years 9.5 months
11	RV College of Engineering, Bangalore, Karnataka	Assistant Professor	6-9-2017 to till date

## Publications & Patents

### Journal Publications

1. Anu Aravind, Anitha Sandeep, "A Study of Work Flow Domain Authentication", International Journal of Computer Science and Mobile Computing (IJCSMC), December 2013, pg. 114-118, ISSN

2320088X.

2. Anu Aravind, Anitha Sandeep, "Workflow Signature for business process domain: A new solution using IBMKD", Proceedings of 2015 Global Conference on Communication Technologies (GCCT 2015), IEEE Xplore, INSPEC Accession Number: 15636954, ISBN- 978-1-4799-8552-4, pg. 619 – 622, December 2015. Web site address: <http://ieeexplore.ieee.org/document/7342736>
3. Madona Raichel, Anitha Sandeep, "e-voting System: Technologies and Implementation", International Journal of Computer Applications, May 2015, ISBN- 973-93-80886-68-4, Volume 117 – No. 24.
4. S Deepa, Anitha Sandeep, "A Survey on Watermarking and Reversible Medical Image Watermarking", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Issue 5, pp. 8272-8277, May 2016.
5. Madona Rachel, Anitha Sandeep, E-Poll (A Privacy Preserving Data Sharing)- International Journal of ICTAK, ICT Academy International Conclave (ICSET- 2016), Volume 2, pp. 76-82, ISSN 2454-5848, June 2016.
6. Megha Mohan, Anitha Sandeep, "Survey, Comparison and Discussion on Reversible Data Hiding Techniques", International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, Issue 9, 16192-16197, September 2016.
7. S Deepa, Anitha Sandeep, "ROI lossless colored medical image watermarking scheme with secure embedding of patient data", IEEE Xplore, INSPEC Accession Number: 16603729, January 2017. doi: 10.1109/INVENTIVE.2016.7823204. Web site address: <http://ieeexplore.ieee.org/document/7823995>
8. Megha Mohan; Anitha Sandeep, "Multiple Security Enhancement for Image Steganography", IEEE Xplore, INSPEC Accession Number: 16616778, January 2017  
Web site address: <http://ieeexplore.ieee.org/document/7823204>
9. Aravind Kumar B, Anitha Sandeep, "Development of Cross-Platform Desktop Apps using Electron Framework", International Journal of Science and Research (IJSR), Volume-8 Issue-5, 2019, ISSN: 2319-7064, pp 389-342.
10. Siddharth Mitta, Anitha Sandeep, "Automation Tool for Case Assignment", IJARIE-ISSN(O)-2395-4396, Vol-5 Issue-3 2019, pp 445-449.
11. Zakir Hussain N, Anitha Sandeep, "A Study on KaiOS Technology ", IJARIE-ISSN(O)-2395-4396, Volume 5 Issue 3, 2019, pp 724-729.
12. Ritwik C, Anitha Sandeep, "React.js and front end development", International Research Journal of Engineering and Technology (IRJET)- e-ISSN-2395-0056, Volume-7 Issue 4, April 2020, pp-3676-2679.
13. Saleem, Venkatesh D.N, Anitha Sandeep, "GST Invoice Generation and Verification Tool", International Research Journal of Engineering and Technology (IRJET)- e-ISSN-2395-0056, Volume-7 Issue 4, April 2020, pp-6499-6501
14. Varsha, Dr. Badrinath, Anitha Sandeep, "Analysis of Frameworks at back end Development for Custody Banking Sector", International Research Journal of Engineering and Technology (IRJET)- e-ISSN-2395-0056, Volume-7 Issue 4, April 2020, pp-4150-4154
15. Sanket, Anitha Sandeep, Dr. Vargheesha S Mathada, "Introduction to Edge Computing, tools and challenges", International Journal of Creative Research Thoughts (IJCRT)-ISSN-2320-2882, Volume-8 Issue 4, April 2020, pp- 2989-2994.
16. Shravan, Anitha Sandeep, "Comprehensive Analysis of React-redux development framework", International Journal of Creative Research Thoughts (IJCRT)-ISSN-2320-2882, Volume-8 Issue 4, April 2020, pp-4230-4233
17. Dipayan Sinha, Minal Moharir, Anitha Sandeep, "Detection of Phishing Websites using Machine Learning", International Journal of Advanced Science and Technology (IJAST), ISSN: 2005-4238, Vol. 29, No. 7, (2020), pp. 2495-2504
18. Vedika Agarwal, Anitha Sandeep, "High Performance Computing in Genomics and Space Science", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056 Volume: 08 Issue: 07, July 2021, pp. 3757-3760.
19. Sinchana Gaonkar, Anitha Sandeep, "Big data in Finance Sector", International Journal of Scientific

Research and Engineering Development (IJSRED), ISSN: 2581-7175 Volume: 4 Issue: 3, June 2021, pp. 835-840

20. Karthik S Rao, Anitha Sandeep, "A Study on State-of-the-art Cloud-based Enterprise Search Solutions", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056 Volume: 08 Issue: 07, July 2021, pp. 2113-2119.
21. Suchith T.E, Anitha Sandeep, "HANDLING FRAUD IN DIGITAL PAYMENTS", High Technology Letters(Q4), ISSN NO: 1006-6748, Volume 27, Issue 6, 2021, pp. 434-445.
22. Furqan Abdul Khadar Ramadurg, Anitha Sandeep, "A Study of Developing Big Data Handling and Analysis Application using Google Guice and JMeter", GRADIVA REVIEW JOURNAL, ISSN NO: 0363-8057, VOLUME 8 ISSUE 7 2022, pp. 1730-1735. DOI: 10.37897.GRJ.2021.V8I7.22.50155
23. Pruthvi Kotnani, Anitha Sandeep, "ETL and Business Analytics for Given Raw Data", International Journal of Scientific Research and Engineering Development(IJSRED), ISSN: 2581-7175, Volume 5, Issue 6, November - December 2022, pp. 850-854
24. Anitha Nagaraja Setty, Rajesh Thalwagal Mathad, Krishnatejaswi Shenthara, Likhith Likhith, "Evaluation of filtering and contrast in X-ray and computerized tomography scan lung classification", IJECS which is on "Vol 33, ISSN: 2502-4752, Volume. 33, No-3, 5th March 2024, pp. 1715-1725. ( Scopus, Q3) DOI: <http://doi.org/10.11591/ijeecs.v33.i3.pp1715-1725>

## Conference Papers

### International

1. Anu Aravind, Anitha Sandeep, "A Study of Work Flow Domain Authentication", International Conference on Mobility in Computing- ICMiC13, Organized by Mar Baselios College of Engineering and Technology, Trivandrum, Kerala, India, from December 17-18, 2013 at pg.114–118.
2. Anu Aravind, Anitha Sandeep, "Workflow Signature For Business Process Domain: A new solution using IBMKD", Global Conference on Communication Technologies (GCCT 2015), Organized by Noorul Islam University, Thuckalay, Kanyakumari District, Tamil Nadu, from April 23-24, 2015. doi: 10.1109/GCCT.2015.7342736
3. S Deepa, Anitha Sandeep, "ROI lossless colored medical image watermarking scheme with secure embedding of patient data" - International Conference on Communication Systems and Networks (ComNet), held at Mar Baselios College of engineering and technology, from July 21 – 23, 2016. doi: 10.1109/CSN.2016.7823995
4. Megha Mohan, Anitha Sandeep, "Multiple Security Enhancement for Image Steganography" - IEEE, International Conference on Inventive Computation Technologies (ICCT 2016) organized by RVS Technical Campus, Coimbatore, Tamil Nadu, from Aug 26- 27, 2016. doi: 10.1109/INVENTIVE.2016.7823204
5. Anitha N, Rajesh T.M, Manikanthan B S, Sandeep G S K, Kruthika P, "Novel Multimodal Approach for Classification of Pulmonary Respiratory Diseases"- International Conference on Artificial Intelligence and Machine Learning in Applied Biotechnology (AIMLBIO)-2022, RVCE, Bangalore, India, from Dec 8-10, 2022.
6. Anitha N, Rajesh T.M, Manikanthan B S, Sandeep G S K, "A Review on Techniques used for Pulmonary Respiratory Disease Classification", International Conference on Artificial Intelligence and Machine Learning in Applied Biotechnology (AIMLBIO)-2022, RVCE, Bangalore, India, from Dec 8-10, 2022.
7. Rohith Kanathur, Rajule Harish Bhagirath, Rakshita Akhilesh, Anitha Sandeep, "In-Memory Depth First Tree construction in Hierarchical Data in a RDBMS" 2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS), Bangalore, India, 2023, pp. 1-5, from Nov 2-4, 2023. Published in: 2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS), doi: 10.1109/CSITSS60515.2023.10334098.

8. N. Anitha, T. M. Rajesh, Pritee Parwekar, and Nitheesh Ram Chatradi, “Denoising and Quality Enhancement of CT Scan/X-ray images of lung disease for Enhanced Diagnosis”, Springer-International System Design & Intelligent Applications (ISDIA 24), Dubai-UAE, from 3-4 Jan 2024. Conference paper got published in Springer Lecture Notes in Networks and Systems 1057 ebook Information System Design: Communication Networks and IoT, Proceedings of ISDIA-24, Vol-1057, ISBN 978-981-97-4895-2, Print ISBN 978-981-97-4894-5, Page No - 29 to 44 on 8-10-2024.  
doi: [https://doi.org/10.1007/978-981-97-4895-2\\_3](https://doi.org/10.1007/978-981-97-4895-2_3)

### **National Conference**

1. A Survey of Game Theoretic Approaches for Autonomous Vehicles - two-day National Conference on “The Recent Advances in Digital Transformation of Agriculture, Science and Environment (RADTASE2022) 04-05 April 2022, organized by Department of Computer Science and Engineering, LBS Institute of Technology for Women, Trivandrum.
2. A Survey of Behavioral Game Theory - two-day National Conference on “The Recent Advances in Digital Transformation of Agriculture, Science and Environment (RADTASE2022) 04-05 April 2022, organized by Department of Computer Science and Engineering, LBS Institute of Technology for Women, Trivandrum.
3. Applications of Price of Anarchy - two-day National Conference on “The Recent Advances in Digital Transformation of Agriculture, Science and Environment (RADTASE2022) 04-05 April 2022, organized by Department of Computer Science and Engineering, LBS Institute of Technology for Women, Trivandrum.

### **Books/Book Chapters: --**

### **Patents:**

Topic: INTEGRATED SYSTEM FOR NOISE REDUCTION, ENHANCEMENT, FEATURE EXTRACTION, AND CLASSIFICATION OF PULMONARY RESPIRATORY DISEASES IN CT SCAN IMAGES

Application No- 202441058545

Date of filing- 02/08/2024

Date of Publication- 09/08/2024

### **R & Grants & Consultancy Projects--**

### **Ongoing & Completed Research Projects--**

### **Ongoing & Completed Consultancy Projects --**

### **Professional Memberships**

- Life member of ISTE

## Awards & Recognitions

Received honour for topper (1%) in NPTEL 2019 from RVCE RSST on 26th Jan 2019.

Received Certificate of Appreciation as Discipline Star from NPTEL Jan-Apr 2025.

## NPTEL Courses done:

1. Problem Solving through Programming in c – Jan to April 2018 –**Gold** (90%)
2. Discrete mathematics- July to Oct 2018- **Gold** (94%)
3. Introduction to Automata, Languages and Computation- Jan to April 2019- **Gold** (98%)
4. Fuzzy Sets, Logic and Systems & Applications – Jan to April 2020 – (Exam in Dec 2020) - **Topper** of course- Gold (98%)
5. Introduction to Soft computing – Jan to March 2021 – (Top 5%) Silver (87%)
6. Design and Analysis of Algorithms - Jan to March 2025 - (Top 5%) Silver (75%)

## Student Supervision

- **Ph.D. Candidates:**
- **M.Tech/M.Sc. Students:**
- **Undergraduate Research Mentees:**

## Professional Roles

- **Editorial Board:**
- **Chair/Committee Member:**
- **Industry Advisor:**

## Teaching

**Core Courses:** **[Current semester]**

- [CD343AI] Design and Analysis of Algorithms
- [CS222AI] Principles of Programming Using C

**Advanced/Lab Courses:**

Design and Analysis of Algorithms Lab

Principles of Programming Using C Lab

## Professional Roles

## Responsibilities

- **Academic:**
- **Administrative:** Department patent file in-charge, CIE Question paper in-charge

## **External Connect**

- Member of BoS / BoE / Academic Council / Governing Body etc- NIL