

Faculty Profile

Brief Profile (Few Paragraphs)



Personal Information

- **Name:** Narasimha Swamy S
- **Designation:** Assistant Professor
- **Department:** Artificial Intelligence and Machine Learning
- **Email:** narasimhaswamys@rvce.edu.in
- **Phone:**

Google Scholar / ResearchGate / LinkedIn

<https://scholar.google.co.in/citations?user=QQmiUAQAAAAJ&hl=en>

ORCID

<https://orcid.org/my-orcid?orcid=0000-0002-5798-961X>

Domain of Expertise

Research Focus

- **Primary Area:** Internet of Things (IoT), Artificial Intelligence and Machine Learning, and Data Visualization
- **Allied Areas:**
 - IoT Application Layer Protocols, Edge Computing/ Edge Intelligence
 - Agentic AI
 - Data Visualization Tools: Power BI

Academic Qualifications

- **Ph.D.:** [Engineering Discipline], AcSIR, CSIR–National Aerospace Laboratories, 2024.
- **M. Sc./ M. Tech:** Computer Networks and Engineering, VTU, 2013.
- **B.E./B. Tech:** Information Science and Engineering, VTU, 2010.

Professional Experience

Experience

S. No	Institute/College/Industry	Job Title	Duration (From- To)
1.	CSIR-NAL, Bengaluru/ CSIR-CEERI, Pilani	Research Scholar	August 2018 to August 2021
2.	R V College of Engineering	Assistant Professor	14 February 2014 to Till Date

Publications & Patents

Journal Publications

1. Narasimha Swamy S., Dheeraj Manirathnam Anna, Akhil Reddy, Vijayalakshmi M N, Kota Solomon Raju, "Visualization of Real-Time Smart Home Data Using PowerBI", SN COMPUT. SCI., 5, 725, 2024. <https://doi.org/10.1007/s42979-024-03051-5>. (Q2)
2. **Narasimha Swamy S**, Dheeraj Manirathnam Anna, Vijayalakshmi M. N and Kota Solomon Raju, "Enabling Lightweight Device Authentication in Message Queuing Telemetry Transport Protocol," in IEEE Internet of Things Journal, [DOI: 10.1109/JIOT.2024.3349394](https://doi.org/10.1109/JIOT.2024.3349394). (Q1, WoS)
3. Vijayalakshmi M N, **Narasimha Swamy S**, Andhe Dharani, Manju Prasad B, "Applications of Machine learning Algorithms for Detection of Vulnerability in Web Applications", SN COMPUT. SCI. Vol. 4, Issue 110, 2023 <https://doi.org/10.1007/s42979-022-01518-x>. (Q2)
4. Vijayalakshmi M. N, Andhe Dharani, **Narasimha Swamy S**, "Real-Time Drowning Detection System using YOLO Framework", GIS Science Journal, Vol. 8, Issue 7, PP 820-825, 2021, DOI: 20.18001.GSJ. 2021.V8I7.21.37613.
5. Prashant Srivatsa, Supraja, **Narasimha Swamy S**, Kota Solomon Raju published a paper title "Real-Time Concrete Damage Detection Using Deep Learning for High Rise Structures" in International IEEE Access (Multidisciplinary Journal) vol. No 9 PP 112312-112331. (Q2, WoS)
6. **Narasimha Swamy S** and Kota Solomon Raju, "An Empirical Study on System Level Aspects of Internet of Things (IoT)", IEEE Access Journal, Vol. 8, 2020, [DOI: 10.1109/ACCESS.2020.3029847](https://doi.org/10.1109/ACCESS.2020.3029847). (Q2, WoS)
7. Dr. Vijayalakshmi MN, Dr. Andhe Dharani, and **Mr. Narasimha Swamy S**, "Realization of IoT Solution for Smart Agri and ITS using Cloud", International Journal of Advanced Engineering and Technology, Vol 1 July 2017, Issue 3, pp 20-23, ISSN: 2456-7655.
8. **Narasimha Swamy S**, Dr Shantaram Nayak, Dr Vijayalakshmi M N, "Analysis on IoT Challenges, Opportunities, Applications and Communication Models", International Journal of Advanced Engineering, Management and Science (IJAEMS), Infogain Publication (Infogainpublication.com), Vol-2, Issue-4, April- 2016, pp 75-78.
9. **Narasimha Swamy S**, Dr Shantaram Nayak and Dr Vijayalakshmi M N, "Performance Analysis of 6LoWPAN Routing Protocols for IoT" in International Journal of Advance Engineering and Research Development (IJAERD) Volume-03, Issue-02, February -2016. Page. No 77-83, e-ISSN (O): 2348-4470, p-ISSN (P): 2348-6406.

Conference Papers

1. **Narasimha Swamy S**, Kushal S, Shiva Kumar, Ravikiran Aithal and Vijayalakshmi M. N, "Enhancing Railway Safety Through Human Activity Recognition," 2024 8th International Conference on

Computational System and Information Technology for Sustainable Solutions (CSITSS), Bengaluru, India, 2024, pp. 1-5, DOI: 10.1109/CSITSS64042.2024.10816793.

2. **Narasimha Swamy S**, Vijayalakshmi. M. N, B Sathish Babu, Manjunatha Reddy, Sumathra Manokaran, Andhe Dharani, "Relevance of Artificial Intelligence in Personalized Medicine", International Conference on Artificial Intelligence and Machine Learning, AIMLBIO-2022, held on 8th - 10th December 2022.
3. Vijayalakshmi M. N, **Narasimha Swamy S**, Dheeraj Manirathnam Anna, Abhishek N. D, Ajay Brightson, Akhil Reddy, Yazna Kalp "Smart Document Classifier and Analyzer Using NLP," 2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS), Bangalore, India, 2023, pp. 1-6, DOI: 10.1109/CSITSS60515.2023.10334144.
4. Narasimha Swamy S, Shivanarayanamurthy P, Gaurav Purohith, Kota Solomon Raju, "An Edge Computing-assisted Internet of Things-based Secure Smart Home", International Conference on Computational Intelligence & Data Engineering (ICCIDE-2021), Organized by The School of Computer Science and Engineering (SCOPE), VIT-AP University, India during 13th-14th, August 2021.
5. Prashanth Kumar, Narasimha Swamy S, Pramod Kumar Tanwar, Purohith Gaurav, Kota Solomon Raju "Real-Time YOLO Based Intelligent Surveillance & Monitoring System using JETSON-TX2", International Conference on Data Analytics and Management (ICDAM-2020), An Indo-European Conference, jointly organized by the Jan Wyzykowski University, Polkowice, Poland and B.M. Institute of Engineering and Technology, Haryana, India on 18th June 2020, DOI: https://doi.org/10.1007/978-981-15-8335-3_35.
6. Dr. Andhe Dharani, Dr. Vijayalakshmi M N and Mr. Narasimha Swamy S," Mobile as a sensor in Intelligent Transportation System for Street Route", in "2018 International Conference on Computing, Power and Communication Technologies (GUCON-2018)", Technically co-sponsored by IEEE UP Section, IEEE Indian Council Computer Chapter, IEEE PE/IA Chapter UP Section & CSI Noida Chapter, Organized by Galgotias University during September 28th - 29th, 2018, DOI: 10.1109/GUCON.2018.8674986.
7. Narasimha Swamy S, and Soumyarani C N, "Repeated Data Management Framework for IoT: A Case Study on Weather Monitoring and Forecasting" in the 4th IEEE International Conference on Recent Advances in Information Technology held during March 15-17, 2018, Organized by Department of Computer Science & Engineering, Indian Institute of Technology (ISM), Dhanbad, DOI: 10.1109/RAIT.2018.8389046

Ongoing & Completed Consultancy Projects

- **Plant Health Monitoring Systems** – Funding Agency: Bull Works, Duration: 2022.
- **Data Analytics and Visualization** – Funding Agency: Daimler India Pvt. Ltd., Duration: 2023

Professional Memberships

- IEEE Student Member

Awards & Recognitions

- AICTE QIP, AICTE, To Pursued Ph.D., January 2021 to August 2021.
- Teaching Research Fellow, Indian National Academy of Engineering (INAE), To Pursued Ph.D., August-2018 to December 2020.

Student Supervision

- Undergraduate Research Mentees: 05

Professional Roles

- **Reviewer for the Journals:** IEEE Access, IEEE Internet of Things Journal and Magazine, American Journal of Science, Engineering and Technology, IEEE Journal of Biomedical and Health Informatics, Bulletin of Computer Science and Electrical Engineering, SN Computer Science, etc.

Teaching

Core Courses: [Current semester]

- Agentic AI
- Foundation of Cyber-Physical Systems

Responsibilities

- **Academic:** Exam Coordinator, BoS and BoE Member, and Interdisciplinary Project Co Ordinator
- **Administrative:** Lab In-charge–Foundation of Cyber-Physical Systems