



R L JALAPPA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, & Approved by AICTE)

Doddaballapura - 561203, Bangalore Rural District

DEPARTMENT OF Computer Science & Engineering

Faculty Name	Dr. Murthy D H R	
Designation	Associate Professor	
Area of Interest	<ul style="list-style-type: none">• Blockchain• Cryptography• Cyber Security• Computer Networks	
Email ID	murthydhr@rljit.in murthydhr@gmail.com	

EDUCATION:

Course	INSTITUTE	UNIVERSITY	YEAR OF PASSING	RESULT (AGGREGATE)
Ph.D. (Blockchain)	Presidency University, Bangalore	Presidency University, Bangalore	2023	---
M.Tech (DCN)	U B D T College of Engineering	Davangere University	2011	74.6
B.E (ISE)	SJCIT Chickballapur	VTU	2008	62

TECHNICAL SKILLS:

- Languages known : Networks Socket Programming
- Operating System : Windows, Linux
- Database packages : MYSQL

PROFESSIONAL WORK EXPERIENCE:

- 9 Years of Teaching experience and 3 years of Research experience
- Currently working as an Associate Professor in the CSE Department, RLJIT
- Worked as “Assistant Professor – Senior Scale” in the School of CSE, Presidency University, Bengaluru from 3-Jul-2017 to 27-Jun-2024 as Assistant Professor (Senior Scale)
- Worked as Senior Project Fellow in HPC and Cyber Security division, CSIR Fourth Paradigm Institute, Bangalore from 22nd May 2014 to 31st March 2017
- Worked as Senior Executive (Academic & Training) in Sadhguru-Tejas Center for Telecom Technology, Udupi from 15th July 2013 to 17th May 2014
- Worked as Assistant Professor in the Department of Information Technology, Sree Rayeshwar Institute of Engineering and I.T., Shiroda, Goa from 7th August 2012 to 6th July 2013

PUBLICATIONS:**JOURNAL;**

1. Murthy D H R, Jacob Augustine, K G Mohan, G K Patra, “An Approach to Improve Blockchain Scalability Using Sharding and PBFT”, International Journal of Intelligent Systems and Applications in Engineering, Vol. 12(2S), ISSN: 2147-6799
2. Murthy D H R, Jacob Augustine, K G Mohan, G K Patra, “Novel Approach Towards Academic Module Based on Blockchain”, International Journal of Intelligent Systems and Applications in Engineering, Vol. 12(3S), ISSN: 2147-6799
3. Murthy D H R, et.al., Analysis and Surveillance Of Infectious Diseases Based On Artificial Intelligence, Bulletin of Environment, Pharmacology and Life Sciences[BEPLS], Web of Science.
4. Medini H K, Mahfooz Sheikh, Murthy D.H.R, Sathyanarayana SV and GK Patra, “Identical Chaotic Synchronization for Hash Generation”, ACCENTS Transactions on Information Security, ISSN (Online):2455-7196, Volume-2 Issue-5 January-2017
5. Ganesan P, Priyanka B.R, Mahfooz Sheikh, Murthy D.H.R and G.K.Patra, A secure key exchange protocol using link weights and dynamic Tree Parity Machine, ACCENTS Transactions on Information Security (TIS), ISSN (Online):2455-7196, Volume-2 Issue-8 October-2017

6. Ramesh M Badiger, Murthy D H R and N Pujar, “Key Challenges on integer factorization in RSA public key Cryptosystem”, AES Journal of Information, Knowledge and Research in Computer engineering, Volume-5, Issue-2, 2016. (ISSN 0975 – 6760, GIF: 01.1135, SIF: 02.502)
 7. Murthy D.H.R and Ramesh M. Badiger, “Context Awareness through Cross-Layer Network Architecture”, International Journal of Computer Science and Technology (IJCSST) ISSN: 0976-8491(Online) / 2229-4333(Print), Vol.4, Issue 2, April-June 2013.
 8. Kaustub and Murthy D H R, “Enhancing Trust and Security in IoT Architecture for Low-Cost Microcontroller Devices using Elliptic Curve Cryptography”, International Journal of Scientific Research in Engineering and Management (IJSREM), VOLUME: 08 ISSUE: 03 | MARCH – 2024, ISSN: 2582-3930
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Conference Proceedings

[1]. Ramesh M Badiger, Murthy D H R, “***South Indian Sign Languages Recognition and Classification using Deep Learning Networks***”, IEEE INTERNATIONAL CONFERENCE ON RECENT INNOVATION IN SMART AND SUSTAINABLE TECHNOLOGY, Presidency University, Bangalore.

[2]. Murthy D H R et.al., “***Leveraging Machine Learning for Early Prediction of Lifestyle Diseases: A Data-Driven Approach***”, IEEE INTERNATIONAL CONFERENCE ON RECENT INNOVATION IN SMART AND SUSTAINABLE TECHNOLOGY, Presidency University, Bangalore

[3]. Secured 3rd position in **National Level Conference** for presenting a paper on the topic “***Speeding up Secure Web Transaction using Elliptic Curve Cryptography***” held at J.N.N Institute of Engineering, Chennai.

FDP/WORKSHOP ATTENDED:

[1]. AICTE Sponsored online FDP on “Blockchain” held during 19th to 23rd October 2020, conducted by Viswajyothi College Of Engineering And Technology, Vazhakulam, Kerala

[2]. One week online FDP on “Blockchain Technology and its Applications” held during 17th to 21st August 2020, organized by JNNCE Shivamogga, in association with NITK Suratkal

[3]. Five days virtual FDP on “Network Simulation Tools – NS2 and NS3” held during 10th to 14th August 2020, organized by Reva University, Bangalore

[4]. Three days FDP on “Blockchain Technology and its Application” held during 22nd to 24th June 2020, organized by VVCE, Mysore.

[5]. Indocrypt – International Conference. Hyderabad, during 15th to 18th December 2019.

[6]. E&ICT Sponsored One week FDP on “New Directions In Cryptography And Applications To Cyber Security” held during 27th May to 1st June 2019 organised by Sree Vidyanikethan Engineering College Tirupathi. AP.

[7]. Attended one-day symposium on **Blockchain enabled Smart Grid Market** held in Bangalore on 22nd February 2019

[8]. Attended **National Instructional Workshop on Cryptology 2018** @ MNNIT Allahabad during 6th to 10th June 2018

[9]. Attended **Ramanujan Math and IT Conference** @ IIIT-Bangalore during 30th to 31st October 2018

[10]. Attended **National Workshop on Cryptology 2016** @ J.N.N. College of Engineering, Shimoga, Karnataka during 11th to 13th August 2016

[11]. One week conference on **“Algebraic Geometry”** at ISI Bangalore during 10th to 16th Dec 2015

[12]. Attended One day Program on **“Digital Signatures and Public Key Infrastructure (PKI)”** conducted by C-DAC @ Bangalore, 27 Nov 2014

[13]. Attended **“National Workshop on Cryptology 2014”** organized by PDPM Indian Institute of Information Technology Design and Manufacturing, Jabalpur. 25th to 27th September 2014

OTHER RESPONSIBILITIES:

- SPOC for Cyber Kavach Hackathon 2023
- Mentor for Smart India Hackathon 2023
- Students under my guidance received 2 best paper awards in the National Seminar on the Role of Technology and Media for Smart Sustainable Future Entrepreneurship- 2024 held at Presidency College, Kempapura on 15th March 2024.
- Students under my guidance got selected for DST project on Cryptanalysis of Block Cipher

PROFESSIONAL MEMBERSHIPS:

- [1]. Life Member of the Cryptology Research Society of India (CRSI) - Membership ID: L/0689
 - [2]. Member of Internet Society, a Global Organization - Member Id: 2187718
 - [3]. Core Committee member of Internet Society Bangalore Chapter
 - [4]. Cyber Volunteer for Cyber Awareness Program under CySecK, Karnataka
 - [5]. Member of IEEE. Member/Customer Number: 95642494
 - [6]. Member of the International Association of Engineers (IAENG) Member No: 326549
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PATENT:

- [1]. Published a German Patent on **SYSTEMS FOR MONITORING AND DIAGNOSTICS OF CYBER/NETWORK SECURITY REMOTELY USING MACHINE LEARNING FEATURE** on 8th June 2022
- [2]. Indian Patent grant on **“IOT BASED AUTOMATIC ROBOTIC WASTE BIN”** on 7th March 2024 bearing Application No. 409500-01 with CBR No. 203649

PAPERS PRESENTED:

- [1]. Ramesh M Badiger, Murthy D H R, “South Indian Sign Languages Recognition and Classification using Deep Learning Networks”, IEEE INTERNATIONAL CONFERENCE ON RECENT INNOVATION IN SMART AND SUSTAINABLE TECHNOLOGY, Presidency University, Bangalore.
- [2]. Murthy D H R et.al., “Leveraging Machine Learning for Early Prediction of Lifestyle Diseases: A Data-Driven Approach”, IEEE INTERNATIONAL CONFERENCE ON RECENT INNOVATION IN SMART AND SUSTAINABLE TECHNOLOGY, Presidency University, Bangalore
- [3]. Secured 3rd position in National Level Conference for presenting a paper on the topic “Speeding up Secure Web Transaction using Elliptic Curve Cryptography” held at J.N.N Institute of Engineering, Chennai.

WORKSHOP ORGANIZED:

[1]. Co-Convener for National Workshop on Cryptology 2019, held at Presidency University, from 26th to 28th September 2019. This event was organized in association with the Cryptology Research Society of India.

[2]. Convener for National Instructional Workshop on Cryptology held from 17th to 19th August 2022 at Presidency University.

Funds Received for National Workshop

1	Cryptology Research Society of India	1,00,000
2	R C Bose Center for Cryptology	48,000
3	National Board for Higher Mathematics	70,000
4	Reserve Bank of India	50,000

CONTACT DETAILS:

Name : Dr. Murthy D H R
Father's Name : Hanumantharaya K
DOB : 12-Nov-1985
Languages known : English, Hindi, kannada, Telugu

Current Address : #37, Lakshmi Nivas
3rd 'A' Main Road, Someshwara Nagar,
Yelahanka, Net Town, Bangalore - 560 065

Marital status : Married
Phone : 9611160318
Nationality : Indian