



## FACULTY PROFILE

Department: Information Science & Engineering

### 1. Personal Details

NAME	<b>Mrs B Gayathri Kamath</b>	
DEPARTMENT	Information Science & Engineering	
DESIGNATION	Assistant Professor	
PHONE	+91 9886282882	
EMAIL ID	<a href="mailto:gayathrikamath@jssateb.ac.in">gayathrikamath@jssateb.ac.in</a>	
Date of Joining (JSSATEB)	01/12/2023	

### 2. Experience

Total Experience in Years	Teaching: 16 years	Industry: NIL	Research: 3 Years
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### 3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B. E	Computer Science & Engineering	2001	Manipal Institute of Technology, Manipal	Mangalore University
M.Tech	Computer Science & Engineering	2007	Vinayaka Mission, Salem	Vinayaka Mission University
Ph. D	Computer Science & Engineering	Pursuing	University of Visvesvaraya College of Engineering, Bangalore	Bangalore Univerisity

### 4. Research & Publications

Papers Published in Web of Science indexed Journals	International:01	National:NIL
Papers Published in SCOPUS indexed Journals	International:5	National:NIL
Papers Published in other Journals	International:NIL	National:NIL
Papers Presented in Conferences / Symposium	International:05	National:

Books / Book chapters Published	Name of the book: Complete reference to Microprocessor Manual Publisher:Star-Tech Year of Publication: 2009
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## 5. Awards Received

Sl. No	Awards
1	Received <b>BEST PAPER AWARD</b> at BHTC 2023 onference held at JSS Research Center, JSS Hospital, Mysuru.
2.	Received <b>BEST PAPER AWARD</b> at INDISCON 2024 conference held at Punjab Engineering College, Chandigarh

## 6. Publications

### i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1.	A Comparative Study of Network Bandwidth Allocation Protocols for Data Center Networks in Cloud.	B Gayathri Kamath H S RameshBabu	International Journal of Computer Applications	2015	WOS	0.8	
2.	A Deep Learning Framework for Chronic Kidney Disease stage classification	Gayathri Hegde M, P Deepa Shenoy, Venugopal K R Dr Arvind Canchi	Healthcare Analytics	Volume 7, 100398, June 2025	Scopus	9.53	Elsevier
3.	A Privacy-Preserving Federated Learning Method with Homomorphic Encryption for Chronic Kidney Disease Stage Prediction	Gayathri Hegde M, P Deepa Shenoy, Venugopal K R Ruthu Jain Ruthvika Arvind Canchi	Engineering, Technology & Applied Science Research	Vol. 15, No. 4, 26019-26026 2025,	Scopus	1.5	
4.	Two-level Security Approach for Secure EHR Sharing via Blockchain and Cryptography	Gayathri Hegde M, P Deepa Shenoy, Venugopal K R	International Journal of Advanced Engineering and Management Research	Vol. 10, No. 06; 2025	Scopus		5.627
5.	Safeguarding Electronic Health Records: A Review on Privacy and Security in EHR Workflows	Gayathri Hegde M, P Deepa Shenoy, Venugopal K R	Journal of Computer Science	Volume 21 No. 11, 2025	Scopus		

## ii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Performance Analysis of Real and Synthetic Data using Supervised ML Algorithms for Prediction of Chronic Kidney Disease.	Gayathri Hegde M, P Deepa Shenoy, Venugopal K R	International Conference on Electronics, Computing and Communication Technologies (CONECCT)	2022	Scopus		IEEE Xplore
2	Analysis of Secure EHR Storage Methods on Blockchain and Integrating ML to Predict Chronic Kidney Disease.	Gayathri Hegde M, Shrishti Bekal, Srinidhi Prasad, P Deepa Shenoy, Venugopal K R	2022 IEEE 7th International Conference on Recent Advances and Innovations in Engineering (ICRAIE)	Vol -7 2022	Scopus		IEEE Xplore
3	Application of Cryptography in Blockchain to Share EHR in Voting Mechanism for Second Opinion and Emergency in Healthcare”	Gayathri Hegde M, Shrishti Bekal, Srinidhi S Prasad, Priyanka G, P Deepa Shenoy, Venugopal K R,	IEEE BHTC -2023	2023			Presneted
4.	Preserving Privacy and Security of Electronic Health Records using Blockchain-based Federated Learning(BFL) Framework	Gayathri Hegde M, Shrishti Bekal M, P Deepa Shenoy, K R Venugopal,	IEEE R-10 HTC	2023	Scopus		IEEE Xplore
5.	A Comparative Study of Neural Network and Machine Learning on Privacy Preserving Federated Learning for Healthcare	Gayathri Hegde M, P Deepa Shenoy, Venugopal K R	IEEE Technology and Engineering Management Society Conference: Asia-Pacific (TEMSCON)	2023	Scopus		IEEE Xplore

	Applications						
6.	A WebApp Framework for the prediction of e-GFR value and CKD stage using Regression-based Machine Learning Algorithms	Gayathri Hegde M, Priyanka, P Deepa Shenoy, Venugopal K R	IEEE 5th India Council International Subsections Conference (INDISCON)	2024	Scopus		IEEE Xplore
7	Secure Chronic Kidney Disease Classification: Homomorphic Encryption vs Differential Privacy in Federated Learning	Ruthu Jain, Ruthvika B Gayathri Kamath	3rd International Conference for Women in Innovation, Technology, and Entrepreneurship (ICWITE-2025).	26-27th September 2025	Scopus		IEEEXplor
8	Exploring Quantum SVM for Cybersecurity : Benchmarking Against Traditional Machine Learning Models	International Conference on Data Science and Exploration in Artificial Intelligence- CODE AI-2025	7th & 8th April, 2025				

### iii. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	FDP in Quantum Computing Tools and its Applications	Dayanand Sagar University	13-17 <sup>th</sup> Feb, 2023
2	AICTE ATAL FDP on Blockchain Technologies and its Applications	Department of CSE, MIT, Manipal	6 <sup>th</sup> – 10 <sup>th</sup> Dec, 2021
3	AICTE ATAL FDP on Introduction to Deep Learning	UVCE, Bangalore	20th to 24th December 2021.
4	3rd International Conference for Women in Innovation, Technology, and Entrepreneurship(ICWITE-2025).	IEEE Women in Engineering	26-27th September 2025
5	Six days online FDP on & Quantum Machine Learning	Vel Tech Multi Tech, Tamil Nadu	7/7/2025 to 12/7/2025
6	"From Transformation to Protection: Mastering Cybersecurity Challenges in Digital Era"	Indian Institute of Information Technology Kottayam (IIIT-K), Kottayam, Kerala, India	5/7/2025 to 14/7/2025
7	Artificial Intelligence and Emerging Technologies	JSS Science and Technology University, Mysuru	18-22 March, 2025

#### iv. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	CSI TECHNICAL SYMPOSIUM	Department of CSE, Acharya Institute of Technology, Bangalore	25/4/2018	CSI Coordinator
2	National Level 2-day workshop on Ethical hacking & Information Security	Department of CSE, Acharya Institute of Technology, Bangalore	28 & 29th September, 2011	CSI Coordinator
3	ICT workshop	Acharya Institutes	2010	Resource person
4	ICT workshop	Acharya Institutes	2009	Resource person
5	National Conference on Information Processing, Communication, Networking and Embedded Systems	Department of CSE, Acharya Institute of Technology, Bangalore	2009	Coordinator, Website design

#### v. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organizer	Date
	NIL		

#### 7. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Blockchain and its Applications	Department of CSE, IIT Kharagpur	April 2022/Successfully Completed	50%

#### Membership of Professional Bodies:

IEEE Professional member, IEEE WIE AG member .Life Membership in Indian Society for Technical Education (

#### Mrs B Gayathri Kamath

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