Faculty Profile

Name of Faculty	Dr. Nagarathna C R	
Department	Artificial Intelligence and Machine Learning	
Qualification	B.E, M.Tech, Ph.D	
Designation	Associate professor	
Area of specialization	Deep Learning	
Date of Joining BMSCE	28/08/2026	
Nature of Association (Regular/Contractual/Adjunct)	Regular	
e-mail	Nagarathnacr.mel@bmsce.ac.in	
No. of years of Experience	17.2 Years	
Nationality	**INDIAN**	

Educational Qualification

Degree	Institution	Month and Year of Passing	% of marks Obtained
Ph.D (CSE)	Dayananda Sagar Academy of Technology and Management, Bangalore	October 2023	-
B.E	BGSIT, Mandya	2009	72%
M.Tech	NIE, Mysore	2014	76%

Working Experience

Sl. No	Designation	Institution / Organization	Duration
1	Associate Professor	BMSCE, Bangalore, India	28/08/2026 to till date
2	Associate Professor	BNMIT, Bangalore, India	04/12/2023 to 27/08/2026
3	Assistant Professor	BNMIT, Bangalore, India	25/05/2022 to 03/12/2023
4	Assistant Professor	DSATM, Bangalore	22/07/2015 to 20/05/2022
5	Assistant Professor	BGSIT,Mandya	03/08/2009 to 20/07/2015

Google Scholar/ Research gate / Orchid Id Links:

Sl No	Online portals	LinkedIn / Google Scholar/ Research gate / Academia/ Orchid Links:
1	Google Scholar	https://scholar.google.com/citations?user=pHRVJGYAAAAJ&hl=en&oi=ao
2	Research gate	https://www.researchgate.net/profile/Nagarathna-Cr-2

3	ORCID ID	https://orcid.org/0000-0003-4261-2585

Projects:

- UG PROJECT GUIDED – 50+
- PG PROJECT GUIDED - 05

Subjects Handled

Generative AI, Graph Neural Networks, Artificial Intelligence, Advanced Artificial Intelligence, Soft Computing, Deep Learning, Machine Learning, Java for mobile applications development, Analog and digital electronics, Discrete Mathematical Structures, Computer organization, Programming in C and Data structures, Analysis and design of an algorithm, Object oriented Concepts, Advanced java, Java Programming, Advanced python, Database management system, Computer networks.

Ph.D:

Title: A NEW APPROACH FOR EARLY DETECTION OF ALZHEIMER'S DISEASE USING MACHINE

Alzheimer's disease, named after the doctor who first described it (Alois Alzheimer) in the year 1906 , is a physical disease that affects the brain and is a common progressive brain disease affecting elderly people over the age 65. In its early stage memory loss is mild but with later stage individual loses the ability to carry on a conversation and fail to respond to their environment. Despite its significance currently there is no cure for it & the current treatments cannot stop AD, so early detection of this disease is more essential for progressing the treatment and help the patients to improve the quality of life. In order to slow down the progression, early diagnosis of the Alzheimer's disease is important. Also, having an early diagnosis helps people with Alzheimer's and their families in different ways such a planning for the future, to be concerned on financial and legal matters and making living arrangements. A combination of different modalities like EEG, MRI, PET etc. can help to improve the diagnosis accuracy rate. Research is needed on the combination of modalities to discover multi-modal bio-markers. In my research I will be working on multi-modality like EEG, MRI and PET for early diagnosis of AD.

Patent:

Indian Patent

Title Intelligent System For Remote Person Monitoring Based On The Internet Of Things And Wireless Body Sensor, Application No- 202141061763 A.

International Patent

Title Intelligent Iot Device For Automating Fingerprints Using Machine Learning And Statistical Payload Fingerprints , Application No- 20 2022 100 016.6.

Designed Patent

Title: Network Intrusion Detection device. Application number- 6435317

- Co-ordinating with **CISCO for "Programming Essentials in C"** course certification for 1st year students as a trainer. During 2019-20 and 2020-2021.
- Co-ordinating with **CISCO for "Programming Essentials in C++"** course certification for 2nd year students as a trainer. During 2019-20 and 2020-2021.
- Resource person for add on program "**Course on java**" for 3rd year students as a trainer. During 2020-21.
- VTU Co-ordinator Responsible to register new faculty details in VTU portal, update all department faculty details yearly, do the subject mapping in every semester.
- AICTE co-ordinator

Regularly updating department faculty details in AICTE portal from the year 2018.

- Final Year Internship guide ship from 2years.

Academic Positions and other Responsibilities (Institute Level):

- NAAC criteria 1 main coordinator institution level.
- Working for NBA criteria-7.
- Main Co ordinator for AICTE Eduskills internship institution level.

Chairmanship / Reviewer at National/International Conference/Seminars:

- Reviewer for IEEE conference 2022

Awards/ Achievements/Memberships:

- Received **Appreciation letter** from Dept. of ISE for achieving **Very Good** student feedback in the year 2017.
- Received Appreciation letter from Dept. of ISE for achieving **Very Good** Result in the year 2018.

Professional Memberships:

- Life time Member of ISTE (LM 118337)
- Computer Science Teacher Association Member

Workshops /Seminars Organized:

- Organized 2 days workshop on **"Advanced Java and J2EE"** on 26th and 27th September 2019 for 5th semester students, ISE department, DSATM Bangalore.

Research Publications:

International Journals:

- Nagarathna, C. R., & Kusuma, M. (2026). Multi perceptron network based model to classify the multi stages of Alzheimer's disease using clinical data. *International Journal of Medical Engineering and Informatics*, *18*(1), 65-78.
- Himaja, G., Nagarathna, C. R., Jayasri, A., & Kundan, K. M. (2024). Prediction of Parkinson's Disease Using Handwriting Analysis and Voice Dataset–A Review. *Journal of Innovative Image Processing*, *6*(2), 118-132.
- Mahanthesha, U., Tejaswini, R. M., & Nagarathna, C. R. (2025, January). Face Recognition using MTCNN, Inception-Resnet with Ensemble Approach. In *2025 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE)* (pp. 1-6). IEEE.
- Nagarathna, C. R., Kusuma, & M Huliyappa, H. (2024). Ensemble Stacking Method of Classifying the Stages of Alzheimer's Disease by using MRI Dataset. International Journal of Artificial Intelligence, 11(2), 62-69.
- Himaja, G., Kundan, K. M., & Nagarathna, C. R. (2024). Car parking slot detection using Hough line transform and CNN model. In Computer Science Engineering (pp. 703-711). CRC Press.
- Chandana, S., Nagarathna, C. R., Amrutha, A., & Jayasri, A. (2024, January). Detection Of Image Forgery Using Error Level Analysis. In 2024 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE) (pp. 1-5). IEEE.
- Rangegowda, N. C., Mohanchandra, K., Preetham, A., Almas, M., & Huliyappa, H. (2023). A Multi-Layer Perceptron Network-Based Model for Classifying Stages of Alzheimer's Disease Using Clinical Data. *Revue d'Intelligence Artificielle*, *37*(3), 601.
- Nagarathna, C. R., & Kusuma, M. (2022). Automatic Diagnosis of Alzheimer's disease using Hybrid Model and CNN. *Journal of Soft Computing Paradigm*, *3*(4), 322-335.
- Nagarathna, C. R , Preetham, A., & Almas, M. (2023). Alzheimer's Classification from EGG Signals Employing Machine Learning Algorithms. Journal of Electronics and Informatics, 5(4), 386-404.
- Nagarathna, C. R., Kusuma, M., & Seemanthini, K. (2023). Classifying the stages of Alzheimer's disease by using multi layer feed forward neural network. *Procedia Computer Science*, *218*, 1845-1856.
- Nagarathna, C. R., & Mohanchandra, K. (2023). An overview of early detection of Alzheimer's

disease. *International Journal of Medical Engineering and Informatics*, *15*(5), 442-457.

- CR Jr, N., & MM Sr, K. (2022). Ensemble approach for early detection and classification of stages of Alzheimer's disease. *Alzheimer's & Dementia*, *18*, e059124.

- Nagarathna C R, Dr M Kusuma **"**Automatic Diagnosis of Alzheimer's disease using Hybrid Model and CNN" Journal of Soft Computing Paradigm. DOI: 10.36548/jscp.2021.4.007.https://irojournals.com/jscp/article/view/3/4/7Volume - 3 | Issue - 4 | December 2021

- Nagarathna C R "The Technique to Detect and Avoid The Denial Of Service Attacks In Wireless **Sensor Networks"** International Journal of Research in Engineering and Technology. DOI: https://ijret.org/volumes/2014v03/i05/IJRET20140305124.pdf

II. In National/International Conference Proceedings

International

- Presented a paper with a title "**Face Recognition using MTCNN, Inception-Resnet with Ensemble Approach**". In 2025 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics

- Presented a paper with title "**Comparative study of detection and classification of Alzheimer's disease using Hybrid model and CNN"**. In 2021 International Conference on Disruptive Technologies for Multi-Disciplinary Research and Applications (CENTCON) (Vol. 1, pp. 43-46). IEEE. DOI: 10.1109/CENTCON52345.2021.9688082.

- Presented a paper with title **"Detection and classification of Alzheimer's using Deep Learning Techniques"** 3rd International conference on Communication and Intelligent System, New Delhi(ICCIS-2021).

- Presented a paper with title **"Detection Of Image Forgery Using Error Level Analysis**". In 2024 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE) (pp. 1-5). IEEE

- Presented a paper with title "**Car parking slot detection using Hough line transform and CNN model"**. In Computer Science Engineering (pp. 703-711). CRC Press.

- Presented a paper with title **"Modified Cluster Based Certificate Blocking of Misbehaving Node In Mantes"** International Conference on Advanced Technologies in Intelligent Control, Environment,

Computing & Communication Engineering (ICATIECE-2019). DOI: 10.1109/ICATIECE45860.2019.9063622.

National

- Nagarathna C R "A **survey on intrusion detection system in wireless sensor networks"** Research Trends in Computer Applications and Information Management Acharya Institute of Management and Sciences (AIMS), Bengaluru, 24th and 25th January 2014
- Nagarathna C R **"The method to detect and avoid denial of service attacks in WSN",** National Conference on Real Time System City Engineering College (CEC), Bengaluru, 9th and 10th May 2014
- Nagarathna C R **"Authentication Technique to Detect and Avoid Black - hole Attack in WSN", Name:** NCETCSE-2017, DSATM Bangalore, 19th may 2017
- **Nagarathna C R "An Online Election Voting System: A Prototype"** NCCSTM-2018, DSATM, Bangalore, 3rd may 2018
- **Nagarathna C R "SURVEY PAPER ON GESTURE RECOGNITION OF BHARATHANATYAM MUDRAS"** NCCSTM-2018, DSATM, Bangalore, 3rd may 2018.

Participation in Training courses/Seminars/Workshops

Training Courses Completed

- Elite performer in online course "**Introduction to Large Language Models (LLMs)**" sponsored by **AICTE NPTEL 2025.**
- Elite+ Silver performer in online course **"Fuzzy logic and neural networks"** sponsored by **AICTE NPTEL 2022.**
- Successfully Completed online course on **"Artificial Intelligence Project" https://olympus1.greatlearning.in/course_certificate/NXEBHSDU**
- Successfully Completed online course on **"Introduction to Deep Learning" https://olympus1.greatlearning.in/course_certificate/HUXNTANC**
- Successfully Completed online course on **"Digital Image processing" https://olympus1.greatlearning.in/course_certificate/RHCRKDLJ**
- Successfully completed online course on **"Introduction to neural networks and deep learning" https://olympus1.greatlearning.in/course_certificate/NVFMLPXX**

- Successfully completed online course on **"Python 101 for data science"** https://courses.cognitiveclass.ai/certificates/26422a85a5394358abefe48551b39943
- Successfully completed online course on **"Python for beginners"**
- Successfully completed online course on **"Artificial Intelligence Concepts"** **https://learn.ibm.com/mod/certificate/view.php?id=41057&action=get**
- Successfully completed 23 hours of "**Deep learning A-Z –Hands on Artificial neural network**" online course on July 1st 2019.

Conference Attended

- The successfully attended as participant in the conference AAIC 2021 virtual conference! Hosted by the Alzheimer's Association on July 26-30, 202.
- In 2021 International Conference on Disruptive Technologies for Multi-Disciplinary Research and Applications (CENTCON-2021) DSCE Bangalore.
- 3rd International conference on Communication and Intelligent System, New Delhi(ICCIS-2021).
- International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE-2019)-DSATM, Bangalore.
- NCCSTM-2018, DSATM, Bangalore, 3rd may 2018.
- National Conference on Real Time System City Engineering College (CEC), Bengaluru, 9th and 10th May 2014.
- Research Trends in Computer Applications and Information Management Acharya Institute of Management and Sciences (AIMS), Bengaluru, 24th and 25th January 2014.

Seminar Attended

- Participating on webinar event titled "Python **for data Preprocessing**" conducted by Department of CSE, Amrutha Institute of management and sciences on 25th June 2019.

Workshops Attended

- Attended 3 day national level workshop on "**Research Methodology**" from 21st to 23rd 2019 at Dept of ISE, DSATM.
- Participated in the workshop on "OBE PRACTICES" organized by DSATM held on 18th to 20th June 2018.

- Participated in 3-day "**NBA workshop 2017**" held on 11th – 13th Dec 2017 at DSATM, Bengaluru.

Faculty Development Program Organized

- 6 days FDP on Deep Dive into Generative AI : from transformers to Applications & Security
- 6 Days FDP on Agentic AI: Architectures, Tools and Applications

Faculty Development Program Attended

- 8 Weeks FDP on Fuzzy logic and neural networks sponsored by NPTEL.
- Attended 5 days FDP on "RPI" organized by ISE department of Dayanada Sagar academy of Technology and Management.
- Attended 5 days FDP on "Blueprism" organized by CSE department of Oxford College of Engineering Bangalore.
- Participated 6 days FDP on "Advances in Artificial Intelligence and Machine Learning" held from 26th to 31st July 2021 organized by CSE department of Oxford College of Engineering Bangalore.
- Participated and presented the research work in Research Conclave (In Association with Research Center, VTU, Belgaum & IEEE Bangalore Section, Bengaluru) on 10th April 2021 held at Dayananda Sagar Academy of Technology and Management.
- Participated in 3-days FDP on "**Mobile Application Development"-18CSM68" at DSATM,** organized by Dept of CSE in association with VTU and CSI, Bangalore chapter.
- Attended 10 days faculty development program on "**Research Orientation**" from 8th to 18th September 2020 organized by DSATM, Bangalore.
- Successfully completed and met the requirements of "**Blockchain Core**" FDP on "Advanced Blockchain Technology" from 28th Jan to 1st Feb 2020 at Dept of ISE, DSATM.
- Attended 3-day FDP on **"Recent trends in Science for Versatile Engineering Applications (RSVEA-2019)** held from 25th to 27th July 2019 at DSATM.
- Attended 5-day FDP on **"Blockchain Technology"** at DSATM organized by Dept of ISE from 28th June to 2nd July 2019.

Events Conducted under IEEE CIS- BNMIT

Serving as faculty advisor of **IEEE CIS BNMIT student chapter.**

The activities/events conducted under IEEE CIS are listed in table below.

Sl. No	Event Name	Date	No.of Participants
1	Technical talk on Computational Intelligence - Advancements and Challenges	12-04-2025	100
2	Data Analytics using Computational Intelligence Workshop	25-04-2025	86
3	LTI Mindtree-Workshop on Snowflake for Data Science	28-04-2025	36
4	Virtuation - AR/VR Hackathon	28-04-2025	74
5	Industrial Visit to BMRCL	16-07-2025	63
6	Student Outreach Programme	31-07-2025	600
7	C++ Hackathon	24-09-2025	133
8	Linkedin Awareness Session	11-10-2025	80
9	Python Workshop on Pandas , Matplotlib	23-12-2025	120
10	Technical Talk on Security and AI	30-01-2026	80
11	Two-Day Hands-On Workshop on No Code Agentic AI: From LLM Foundations to Autonomous Systems	30-01-2026	130
12	GenX-Gen AI Hackathon	17-03-2026	136

Personal Details:

- Date of Birth: 10/06/1987
- Father Name: Rangegowda C T
- Mother Name: Lilavathi
- Hobbies : Reading News Paper. Listening Music, Watching Movies & Cooking.
- Languages know: Kannada, English

Contact Details:

Permanent Address:

Nagarathna C R U D/O Rangegowda

Chevvenahalli, Nagara Navile (Post)

Bagur(Hobli), Channarayapatna(Taluk)

Hassan (District)

E-mail : nagaratha.binu@gmail.com
Mobile No: 9663988580