

# Curriculum Vitae

Dr. Gayatri Hegde  
Associate Professor  
HoD, Department of Computer Science and Engineering,  
Bharati Vidyapeeth Deemed to be University,  
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**Google Scholar:** <https://scholar.google.com/citations?user=woSyU8YAAAAAJ&hl=en>

**Researchgate :** <https://www.researchgate.net/profile/Gayatri-Hegde/research>



## CAREER OBJECTIVE

Intend to build a career in a professional environment with commitment and dedication which will enrich my competence and potential. To work as a key player in a challenging & creative environment. To be the source of inspiration for the present and future generations

## EDUCATION

- **Ph.D. Computer Engineering** , Thadomal Shahani Engineering College, Mumbai University-March 2023
- **Masters of Engineering in Computer Engineering**, Pillai Institute of Information Technology, Mumbai University-August 2013
- **Master of Business Administration in Systems and Management**, Sikkim-Manipal University-Feb 2006
- **Bachelor of Engineering in Computer Science**, Basaveshwar Engineering College, Bagalkot, Karnataka University-Dec 1999

## ACADEMIC EMPLOYMENT

**Bharati Vidyapeeth Deemed to be University, Department of Engineering and Technology, Navi Mumbai, Maharashtra**  
June 2023 - Till Date  
Associate Professor

**Pillai College of Engineering, New Panvel, Maharashtra**  
July 2010 – May 2023  
Associate Professor

**RAIT, Nerul, Navi Mumbai, Maharashtra**  
Feb 2008 – June 2010  
Lecturer

**MS Polytechnic, Bangalore, Karnataka**  
Jan 2006 – Jan 2008  
Lecturer

**LB Commerce and Arts College, Sagara, Karnataka**

Jan 2004 - Dec 2005

Lecturer

**Basaveshwar Engg College, Bagalkot, Karnataka**

Jan 2000 - Dec 2003

Lecturer

**COURSES TAUGHT**

Blockchain Technology, AI/ML, Deep Learning, Operating System, Automata Theory/Theory of Computer Science, Unix Operating System, Multimedia Systems, Distributed Systems, Database Management Systems

**AREA OF INTEREST**

Blockchain Technology, AI/ML, Deep Learning, IoT, Cloud Computing, BigData Analytics, Distributed Systems, Parallel Computing, Operating System

**COPYRIGHTS/PATENTS**

- **PATENT** registered on “Smart Helmet With Accident Detection”, Design No. 395657-001
- **PATENT** Published on “IOT Based System For Women And Children Safety”, Patent Number: 202121057471
- Received **COPYRIGHT** on "MY SMART BUDDY: Personal Voice Controlled assistant Mobile Application For Blind" L-107438/2021
- Received **COPYRIGHT** on "Dataset creation / Dataset contents through a survey to know the use of WhatsApp in Education during pandemic for e-Learning" L-109646/2021
- Received **COPYRIGHT** on "Sugarcane plant disease dataset" L-117723/2022
- Received **COPYRIGHT** on “Sign Language Interpreter: A Gesture Based Recognition System for Indian Sign Language“ L-131233/2023
- Received **COPYRIGHT** on “The Power of Gestures: Dataset on Indian Sign Language“ L-131234/2023
- Applied for 2 Patent and 1 Copyright under Bharati Vidyapeeth

**RESEARCH CONTRIBUTION**

- Proposal submitted to UNNAT BHARAT ABHIYAN (UBA) “Smart Waste Management Using IoT for betterment of Village”.
- Minor research proposal submitted to Mumbai University on "Intelligent Stick For Visually Impaired Using IoT"

**SOCIAL ACTIVITIES ATTENDED**

Participated in **Unnat Bharat Abhiyan** Survey Activity twice

## MAJOR PROJECTS GUIDED (50+ PROJECTS GUIDED)

- Waste Management using IoT
- Bitcoin Prediction using deep learning
- Credit Card Reader with Face Recognition based on Webcam
- Route guiding Augmented reality based Autonomous Humanoid Instructor (Selected for AVISHKAR Second Round)
- Smart Helmet
- Automatic plant watering system using IoT
- Smart touch phone for blind (Selected for AVISHKAR Second Round)
- Smart lock for home automation using IoT
- Blockchain for agriculture supply chain
- Shopper's Loop: An Ecommerce Website (Won **Best Project** in Intercollege Project Competition)
- Sugarcane Plant Diseases Prediction (Selected for AVISHKAR Second Round)

## CONFERENCE/JOURNAL PUBLICATIONS (25+)

1. Awaited 2 Papers submitted in Scopus indexed Journal
2. Gawade Sushopti, Hegde Gayatri, Marulkar Pallavi Sudhir, Bhansali, Ashok, "Impact of Social Media Like WhatsApp for Education Domain", 6th International Conference on Information Systems and Computer Networks, ISCON 2023, IEEE
3. Gayatri Hegde, Madhuri Rao, "Smart Cloud: A self Organizing Cloud", International Conference on Inventive Computation Technologies(ICICT 2019), Organized by R V S Technical Campus Coimbatore, August 29, 30, 2019, Scopus Indexed, Springer, PP-723-729
4. Shivam Singh, Kritika Shah, Gayatri Hegde, "Proposed Automated Plant Watering System Using IoT", Proceedings 2019: Conference on Technologies for Future Cities (CTFC), Elsevier Jan-2019
5. Gayatri Hegde, Jayashree Arunan, Faseeha Modak, Anushree Nair, Komal Sangal "Bitcoin Price Prediction using Deep Learning", International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653, Volume 11 Issue IV Apr 2023, pp 1780-1788
6. Nikhil Duttaroy, Aastha Angre, Samidha Powar, Prasad Patil, Gayatri Hegde, "Voice Controlled E-commerce Web App" International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056, Volume: 09, Issue: 01, Jan 2022
7. Gayatri Hegde, Prathmesh Godse, Ronak Kothari, Mahendra Sutar "Voice Assistant Android Application" International Journal Of Creative Research Thoughts-IJCRT, ISSN Approved Journal No: 2320-2882 ,UGC-Approved, Volume 9, Issue, 4, April 2021
8. Gayatri Hegde, Siddhesh Pawar, Parth Govekar, Komal Dhar "Face Recognition Based Door Unlocking Using Raspberry PI", International Journal of Innovative Research in Technology, IJIRT, ISSN: 2349-6002, UGC-Approved, ISSN: 2349-6002, Volume 7, Issue 11, April 2021
9. Divya Dhamankar, Shrutika Ahire, Shahnaz Ussanar, Dhanashree Berde Gayatri

- Hegde "Soil Fertigation System for Desired Crop Using IoT and Machine Learning", International Journal of Scientific Research in Engineering and Management (IJSREM) Volume 05, Issue 05 May 2021,ISSN-2582-3930.
10. Mansi, Shrishti, Athira, Vaishnavi, Gayatri, "RAAHI : Route guiding Augmented reality based Autonomous Humanoid Instructor", International Journal of Engineering Research and Applications,ISSN: 2248-9622, Vol. 10, Issue 5, (Series-II) May 2020, pp. 17-20
  11. Shivam Singh, Kritika Shah, Gayatri Hegde, "Proposed Automated Plant Watering System Using IoT", Proceedings 2019: Conference on Technologies for Future Cities (CTFC), Elsevier Jan-2019
  12. Sagar Bhutada, Shivani Deshmukh, Mitesh Keny, Wahab Memon, Gayatri Hegde, "Smart Waste Management using IOT", International Journal of Research in Engineering, Science and Management (IJRESM) Volume-1, Issue-4, April 2018
  13. Tison Varghese, Vidya Nambiar, Pushkar Dandekar and Gayatri Hegde, "Authentication of Credit Card Using Facial Recognition" International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS) Volume VII, Issue IV, April 2018 | ISSN 2278-2540 May 2018
  14. Mukesh Yadav, Gayatri Hegde, "Voice Translation on Windows & Linux machine", International Journal of Innovations and Advancement in Computer Science, Volume 3, Issue 10, December 2014
  15. Gayatri Hegde, Sharvari Govilkar "Study on Parallel Algorithm for Sequential Pattern Mining", International Journal of Advanced and Innovative Research (IJAIR), Volume 1, Issue 4, 2012
  16. Gayatri Hegde, Ashwini Deshmukh "A Literature Survey on Latent Semantics", International Journal of Engineering Inventions(IJEI), Volume 1, Issue 4, 2012
  17. Gayatri Hegde, Sharvari Govilkar, " Literature Survey on Sequential Pattern Mining", International Conference on Computer and Engineering (ICCSE), 2012

#### **WORKSHOPS/SEMINARS, CONFERENCE AND FDP's ATTENDED (50+)**

1. FDP One-week FDP on "Linux Application in Engineering Education" Organized by NITTTR, CSE Department, Chandigarh, from 27th April 2020 to 1st May 2020.
2. Two Day Workshop on "Internet of Things" Organized by Universal College of Engineering on 14th and 15th May 2020.
3. FDP One-week FDP on "R Programming" Organized by Pillai college of Engineering through Spoken Tutorial Project IITB, from 29th April to 3rd May 2020.
4. One day Workshop on eSim, a First Course in the IoT Series for Teachers' 'e-sim' on IoT - 21 Sep 19 Conducted by IIT Bombay.
5. Attended One Week STTP on "Management Information System" from July 19th 2019 held at PCE, Panvel
6. Attended One day FDP on "eSim a First Course in the IoT Series for Teachers", organized by IITB, 21st September 2019
7. Attended One day FDP on "R-Programming", organized by IITB, 9th November 2019
8. Attended One day FDP on "Linux", organized by IITB, 23rd August 2019
9. Attended One day FDP on "Moodle", organized by IITB, March 15th 2019

10. Attended Two days weekend training program for Machine Learning organized by IITB
11. Attended Two day FDP on “Basic Python programming”, organized by IITB, June 22nd 2019
12. Two day FDP on Basic Python programming Organized by Department of Computer Engineering and Information Technology on Jan 4 - 5 ,2018., PCE , New Panvel.
13. Completed One week FDP101X " Foundation program in ICT for Education " with 98%, organized by IITB
14. Completed One week FDP201X " Pedagogy for Online and Blended Teaching Learning Process " with 94%, organized by IITB
15. Completed Two Week FDP301X “Mentoring Educators in Educational Technology “, with 78%, organized by IITB
16. One Week ISTE Approved FDP on “Research Advances in Internet of Things(IoT)” organized by RAIT, Nerul, Navi Mumbai on 21st to 25th June 2016.
17. Attended 3 days workshop on "Scilab" from 21st to 23rd July 2011, PIIT
18. Attended 1 week ISTE approved seminar on "Business Intelligence and Business analytics" from 4th to 9th August 2011,PIIT
19. Attended 2 days ISTE approved workshop on "Writing Effective Conference Papers" from 18th to 19th February, 2012, PIIT
20. Attended 2 weeks ISTE approved workshop on "Computer Programing" from 20th to 21st May 2014, PIIT

## OTHER ACHIEVEMENTS

1. **Head of Department of Computer Science and Business Systems, BVDU-DET**
2. **Recognized PG Guide** (Computer Engineering and Information Technology) under University of Mumbai
3. Recognized **Innovation Advance level Ambassador** under NISP-MoE's innovation cell(GoI)
4. **Reviewer** for International Conference "IEEE Conference on Technology for Future City- CTFC 2021" organized by PCE on 8th n 9th October 2021
5. **Session Chair** for "IEEE Conference on Technologies for Future Cities CTFC-2021" held on 8th and 9th October 2021
6. **Reviewer** for 5th IEEE - International Conference on Advances in Science & Technology (IEEE-ICAST - 2022) organized by K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai
7. **BoS member** of Pillai College of Engineering, Autonomous
8. Worked as **Paper Setter** under Mumbai University
9. Worked as **Syllabus Setter** under Mumbai University
10. Awarded 3 years **National Board of accreditation (NBA)** for Department of Computer Engineering, Pillai College of Engineering in the year 2012-13.
11. Awarded 3 years **National Board of accreditation (NBA)** for Department of Computer Engineering, Pillai College of Engineering in the year 2021-22.
12. Awarded **NAAC "A+"** Grade for Pillai College of Engineering in the year 2021-22.

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