Dr. Geetha M

Associate Professor
Department of MCA
BIET.

Address:
Department of Master of Computer Applications
Bapuji Institute of Engineering & Technology, Shamanur Road, Davangere-577004.

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Objective

To be a successful faculty member contributing towards departmental growth aimed at institutional goals and objectives.

Research Interests

- Machine Learning, Deep Learning
- Remote Sensing

Academic Profile

Visvesvaraya Technological University, Belagavi   Ph.D   **2017-2023**

Doctor of Philosophy (Ph.D), Faculty of Applied Sciences (MCA).Research in "Machine Learning Based Crop Pattern Mapping and Yield Estimation using Remote Sensing and GIS Applications" @ MCA Research Centre, Tumakuru.

Gulbarga University, Gulbarga MCA   **1998-2001**

Master of Computer Applications (MCA), Gulbarga University, Gulbarga.

Gulbarga University   B.Sc   **1995-1998**

Bachelor of Science (B.Sc), ASM College for Women's, Bellary.

Teaching Experience

18 Years at BIET; 04 Years in ASMC for Women, Bellary, 6 Months in ICFAI, Bellary

Associate Professor

Department of Master of Computer Applications, Bapuji Institute of Engineering & Technology, Davangere, from November 2023 to till date.

Assistant Professor

Department of Master of Computer Applications, Bapuji Institute of Engineering & Technology, Davangere, from August 2013 to October 2023.

Lecturer

- MCA Department of Bapuji Institute of Engineering & Technology, from 2006-2013 Davangere.

Professional Memberships

- Indian Society for Technical Education (ISTE) -Lifetime Membership- 70930
- Indian Society of Remote Sensing - Life Time Membership - L-5574

Major Achievements

- Awarded as a best teacher for 01 time from the college for achieving 100% result in the subjects handled.

Subjects Handled

- Deep Learning, Machine Learning, Object Oriented Programming using Java, Discrete Mathematics, Data Structures Using C, Programming using Java, Design and Analysis of Algorithms, Cloud Computing, Computer Graphics, Operations Research, Data Mining and Warehousing, Web 2.0 and Rich Internet Applications, Programming Using C, Software Testing and Practices, Mathematical Foundation for Computer Applications, Software Engineering, Programming using C#.Net, COBOL(Common Business Oriented Language).

Additional Roles @ BIET

- Appointed as a committee member for Internship Training at Institute Level
- Appointed as a committee member for ERP Management Internship Training at Institute Level
- Guided 200+ Projects for PG students
- Participated in Handling Infosys campus connect program
- Departmental Placement Coordinator
- Departmental Coordinator of Techno wave Magazine
- Departmental EDC Coordinator
- Departmental Skill Development coordinator
- Departmental NAAC Coordinator
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List of Publications

- Dr. Geetha M, "Improved Random Forest And Cuckoo Search Optimization Based Hybrid Approach For Healthcare Monitoring Systems", Volume: 21, No: S3 (2024), pp. 1228-1239 ISSN: 1741-8984 (Print) ISSN: 1741-8992 (Online). Scopus Indexed.

- Geetha M, "Classification of Sentinel 2 Images using Customized Convolution Neural Networks", International Journal of Intelligent Systems and Applications in Engineering (IJISAE) 11(1s), 136-142 Impact factor 0.546 January 2023. Scopus Indexed.

- Geetha M, "Exploring Vegetative Indices for Yield Prediction using Sentinel 2 Data- A Study in a Select Region of Karnataka", International Journal of Intelligent Systems and Applications in Engineering (IJISAE) 10(4), 574-581 Impact factor 0.546 and December 2022. Scopus Indexed.

- Geetha M, "Change Detection of LULC Using Machine Learning" ,3rd International Conference on Integrated Intelligent Computing, Communication and Security(ICIIC-2021) August 6th and 7th August 2021,Atlatis Press, progressing towards Scopus Indexed..

- Geetha M, "Land use and land cover mapping of Davangere using Google Earth engine", journal International Journal of Recent Technology and Engineering (IJRTE), 8(3), Impact factor 4.69 September 2019, Blue Eyes Intelligence Engineering and Sciences Publication with DOI: 10.35940/ijrte.a1109.098319. Scopus Indexed

- Geetha M, "Crop Mapping using SAR Imagery: An Review" published in the journal International Journal of Advanced Research in Computer Science with Vol. No. 8 Issue No.3 Impact factor 4.69 and year of publication September 2016.

CONFERENCE ORGANIZED

- Dr. Geetha M Organized "**National Conference on Emerging Trends in Technology and Computer Applications (NCETTCA-2024)**" on 3rd July 2024, organized in the Department of MCA, Bapuji Institute of Engineering and Technology, Davanagere.

    PEER Reviewer

    - Dr. Geetha M reviewed the manuscripts which have been submitted to the ESAMI-2024.

CONFERENCE ATTENDED

1. 'Change Detection of LULC Using Machine Learning' , Geetha M, Asha Gowda Karegowda, Nandeesha R, Nagaraj B V, 3rd International Conference on Integrated Intelligent Computing, Communication and Security(ICIIC-2021) August 6th and 7th August 2021 Scopus Indexed, https://dx.doi.org/10.2991/ahis.k.210913.042 published papers\LULC-IJRTE-2019sept.pdf

2. Enhanced Thyroid Nodule Classification Adopting Significant Features Selection, Poornima D, Asha Gowda Karegowda, Geetha M , 2022 Fourth International Conference on Emerging Research in Electronics, Computer

Science and Technology (ICERECT), 26-27 Dec.2022.DOI: 10.1109/ICERECT56837.2022 https://ieeexplore.ieee.org/document/10060526.

BOOK CHAPTER PUBLISHED

1. Book chapter entitled "Applications of ANN for Agriculture Using Remote Sensed Data", Geetha M. Asha Gowda Karegowda, Nandeesha R and Devika G. Source Title: Applications of Artificial Neural Networks for Nonlinear Data Copyright: © 2021 |Pages: 29 DOI: 10.4018/978-1-7998-4042-8.ch004 (IGI Global).

2. Book Chapter entitled "Deep Learning Solutions for Agricultural and Farming Activities", Asha Gowda Karegowda, Devika G. and Geetha M. Source Title: Deep Learning Applications and Intelligent Decision Making in Engineering Copyright: © 2021 |Pages: 32, ISBN13:9781799821083, DOI: 10.4018/978-1-7998- 2108-3. ch011(IGI Global), Scopus Indexed.

Training Attended

Geetha M has attended the Training on "Remote Sensing Applications for Land Resource Mamgement" organized by National Remote Sensing Centre, NRSC Hyderabad, from July 1st 2019 to 12th July 2019.

NPTEL Online Certification
- Dr. Geetha M has successfully completed the FDP course "Data Analytics with Python" during Jan-Apr-2024.
- Dr. Geetha M has successfully completed the FDP course "Programming in Java" during July-Oct 2023.
- Dr. Geetha M has successfully completed the course "Discrete Mathematics" during July-Oct 2023.

Seminars/Workshops Attended
- Participated in five days FDP on "Exploring Data Science with Hands-on Training using Python" from 22nd-26th April 2024 organized by the Department of Computer Applications, Madanapalle Institute of Technology & Science, Madanapalle.

- Participated in three days FDP on "Certificate Course on Python for Data Analysis" from 13th-15th February 2024 organized by the Deapartment of Academic Affairs, A2Z Edu Learning Hub LLP, India.

- Participated in six days FDP on "Mastering IoT: Hands-on Training for Sensor Integration, Devices and Cloud Services" from 04th-09t^{h} December 2023 organized Department of Electronics &Communication Engineering, Bapuji Institute of Engineering and Technology, Davangere in association with Eaktech Private Limited, Bengaluru.

- Participated in five days FDP on "Python and its Applications" from 12th-14th June 2023 organized by MCA forum, Department of Master of Computer Applications, Bapuji Institute of Engineering and Technology, Davangere

- Participated in a one week AICTE -VTU JOINT teacher training programme on "Fundamentals of Data Science & Analytics", from 05th-09th June 2023, organized by Visvesvara Technological University, Centre for PG studies, VIAT, Muddenahalli, Chikkaballapur.

- Participated in a one week AICTE -VTU JOINT teacher training programme on "Introduction to Cyber Security", from 22nd-26th May 2023, organized by Visvesvaraya Technological University, Centre for PG studies, VIAT, Muddenahalli, Chikkaballapur.

- Participated in a one day online workshop on "Recent algorithms for Remote Sensing Applications in Agriculture (RARSAA 2023)", on March 31, 2023, jointly organized by IEEE GRSS Bangalore Section, NITK Surathkal.

- Participated in Two days' workshop on "Interface of IPR in Academics and Entrepreneurship", from 2nd and 3rd March 2023, at BIET, Davanagere

- Participated in Three days FDP on "ArcGIS Pro:Essential Workflows"', from 1st to 3rd March 2023, organized by esri India, SIT, Tumukuru.

- Participated in Five days virtual FDP on "Emerging Trends in the Machine Learning and Deep Learning Techniques', from 2nd to 6th Jan 2023, Organized by Dept. of Computer Applications , Madanapalle Institute of Technology and Science, Madanapalli

- Participated in one day workshop on "Android Applications" on 22nd December 2022 organized by MCA forum, Department of Master of Computer Applications, Bapuji Institute of Engineering and Technology, Davangere.

- Participated in one day seminar on "Soft Computing" on 17th August 2022 organized by MCA forum, Department of Master of Computer Applications, Bapuji Institute of Engineering and Technology, Davangere.

- Participated in a five days online summer workshop on "Recent algorithms for Remote Sensing Applications in Agriculture (RARSAA 2023)", from July 12th to 16th 2022, jointly organized by

IEEE GRSS Bangalore Section, NITK Surathkal.

- Participated in one day workshop on "Hands on Artificial Intelligence for IoT" on 16th December 2021 organized by MCA forum, Department of Master of Computer Applications, Bapuji Institute of Engineering and Technology, Davangere.

- Participated in one day online awareness program on "Springer Nature e-Resources", organized by VTU Consortium and Springer Nature on 3rd Dec 2021.

- Participated in one day seminar on "Cyber Security" on 13th November 2021 organized by MCA forum, Department of Master of Computer Applications, Bapuji Institute of Engineering and Technology, Davangere.

- Participated in AICTE Training and Learning (ATAL) Five Days Online FDP on "GIS and Remote Sensing" from 21st to 25th September 2021 organized by Engineering College Bikaner.

- Participated in one week Sponsored Online FDP on "Artificial Intelligence, Machine Learning and Deep Learning for Remote Sensing, GIS and GNSS Application Areas", from 23rd to 27th March 2021 organized by the Institute of Electronics and Telecommunication and Dept. of Civil Engineering, Kolhapur Institute of Technology, Kolhapur.

- Participated in one day workshop on "Hands on Artificial Intelligence for IoT" on 16th December 2021 organized by MCA forum, Department of Master of Computer Applications, Bapuji Institute of Engineering and Technology, Davangere.

- Participated in one week AICTE SPONSORED online FDP on Artificial Intelligence, Machine Learning, and Deep Learning for Remote Sensing, GIS and GNSS application Areas", from 23rd to 27th March 2021, organized by BIET,Davanagere.

- Participated in the Seminar on "Artificial Intelligence in Robotics & Home Appliances", organized by MCA Forum, Department of Master of Computer Applications, Bapuji Institute of Engineering and Technology, Davangere held on 18th March 2021.

- Participated in Two days workshop on "Implementation of National Education Policy-2020", on 10th and 11th December, 2021, BIET, Davanagere.

- Participated in an online webinar on "Remote Lab Platform for Hardware Circuit Experiments", held on 10th Nov 2020, Dept. of Electronics and Communication Engineering in association with Institution of Engineers(India), BIET,Davanagere.

- Participated in one week online short term training programme on "Applications of GIS &

Remote Sensing in Civil Engineering ", sponsored by AICTE, from 19th to 24th October 2020, organized by Dept.of civil Engineering,BIET,Davanagere.

- Participated in one day webinar on "Scientific Writing for Journals", organized by Springer Nature in collaboration with VTU Consortium on Sept 30 2020.

- Participated in one day webinar on "Recent Trends in Geospatial Technology and its Applications in Agriculture", on 16th Dec 2020, by Dept. of Agriculture, School of Agriculture and Biosciences, Karunya Institute of Technology and Sciences, Coimbatore.

- Participated in Online Faculty Development Program on Online Teaching and Learning Tools from 22nd – 24th July 2020 organized by the Department of Master of Computer Applications, Dr. Ambedkar Institute of Technology, Bengaluru.

- Participated in one week Online Faculty Development Program on Challenges and Opportunities in AI and ML", from 20th – 24th July 2020 organized by the CS & E ,Department of Master of Computer Applications, Bheemamnna Kandre Institute of Technology, Bhalki.

- Participated in three days' Workshop on "Introduction to IoT and its Prototypes", on 25th to 27th September 2019 organized by MCA forum, Department of Master of Computer Applications(MCA), Bapuji Institute of Engineering and Technology, Davangere

- Participated in Two days Online crash course on "Digital Image Processing using Python - OpenCV '', organized by the SCS-India, from 17th to 19th July 2020.

- Attended 7001-Online certificate course on Remote Sensing and GIS Technology and applications for University Teachers and Government officials from June 13th to July 1st 2020 at Indian Institute of Remote Sensing (iirs), Dehradun

- Participated in a webinar on "Cloud Computing and its Relevance Today", organized by Dept.of MCA RNSIT, on 18th June 2020.

- Participated in four days Webinar Series on "Remote Sensing in Crop Monitoring and Assessment", from 19th May to 9th June 2020 at Indian Institute of Remote Sensing (iirs), Dehradun.

- Participated in Two days Webinar on "Computing Paradigms"", from 21st to 22nd May 2020, jointly organized by Yelagiri Hills ACM Chapter and School of Computing Science, Don Bosco College, Yelagiri Hills.

- Participated in Online Faculty Development Program on Online Teaching and Learning Tools

from 22nd - 24th July 2020 organized by the Department of Master of Computer Applications, Dr. Ambedkar Institute of Technology, Bengaluru.

- Participated in one week Online Faculty Development Program on Challenges and Opportunities in AI and ML", from 20th - 24th July 2020 organized by the CS & E ,Department of Master of Computer Applications, Bheemamnna Kandre Institute of Technology, Bhalki.

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- Participated in Two days Webinar on "Computing Paradigms"", from 21st to 22nd May 2020, jointly organized by Yelagiri Hills ACM Chapter and School of Computing Science, Don Bosco College, Yelagiri Hills.

- Participated in the three days' Workshop on "Introduction to IoT and its Prototypes" on 25th, 26th and 27th September 2019 organized by MCA forum, Department of Master of Computer Applications(MCA), Bapuji Institute of Engineering and Technology, Davangere.

- Participated in one week training Programme through ICT mode on "Effective Teaching" organized by National Institute of Technical Teachers Training and Research, Kolkata from 15th to 19th July 2019.

- Participated in a two weeks training course on "Remote Sensing Applications for Land Resources Management" at National Remote Sensing Centre, Hyderabad from 1st -12th July2019.

- Participated in the five days Workshop on "Effective Teaching" from 15th to 19th July 2019, Organized by IS&E Department,BIET, Davangere in association with National Institute of Technical Teacher's Training & Research(NTTTR), Kolkota.

- Participated in the one day Seminar on "Role of IoT in Smart Cities" on 12th March 2019, Organized by MCA Forum, Dept. of MCA, Bapuji Institute of Engineering and Technology, Davangere

- Participated in the two days Workshop on "Data Analytics using R-Tool" on 30th and 31st August 2017, Organized by MCA Forum, Dept. of MCA and in association with ISTE Students Chapters', BIET, Davangere at Bapuji Institute of Engineering and Technology, Davagnere.

- Participated in the one day Seminar on "Comparing & Contrasting OOP with POP" on 9th May 2018, Organized by MCA Forum, Dept. of MCA, Bapuji Institute of Engineering and Technology, Davangere.

- Participated in three days Faculty Enablement programme on "**Machine Learning and Implementations**" organized in collaboration with IQAC-GMIT, Dept. of Information Science & Engineering, GMIT, Davangere from 4th & 6th of July 2018.

- One day Seminar on "Role of IoT in Smart Cities" on 12th March 2019, Organized by MCA Forum, Dept. of MCA, Bapuji Institute of Engineering and Technology, Davangere.

- Participated in the one day Orientation Programme on "**Preparation for UGC-NET and SLET examination**" organized by MCA forum and in association with National Service Scheme(NSS), Bapuji Institute of Engineering and Technology, Davangere held on 19th April 2017

- Participated in the two days online workshop on Faculty Development Program on "Recent Trends in Information Science and Technology" on 15th and 16th May 2020 through Cisco Webex Meet organized by IS&E department , BIET, Davangere in association with TCS Bangalore.

- Participated in the five days Workshop on "Effective Teaching" from 15-07-2019 to 19-07- 2019, Organized by IS&E Department, BIET, Davangere in association with National Institute of Technical Teacher's Training & Research(NTTTR), Kolkota.

- Attended two days workshop on "**Data Analytics using R-Tool**" on 30th & 31st August 2017, Organized by MCA forum and Dept. of MCA, Bapuji Institute of Engineering and Technology, Davangere-577004.

- Participated in the one day Orientation Programme on "**Preparation for UGC-NET and SLET examination**" organized by MCA forum and in association with National Service Scheme(NSS), Bapuji Institute of Engineering and Technology, Davangere held on 19th April 2017

- Participated in the one day Seminar on "**Introduction to Angular JS**" on 27th February 2017, Organized by MCA forum and Dept. of MCA, Bapuji Institute of Engineering and Technology, Davangere-577004

- Participated in the one day seminar on "**Java Crystals**" on 6th April 2016 organized by MCA forum, Dept. of MCA, Bapuji Institute of Engineering and Technology, Davangere-577 004

- Participated in the one day seminar on "**Markov Chains and its Applications**" on 22nd April 2016 organized by MCA forum and Dept. of MCA, Bapuji Institute of Engineering and Technology, Davangere-577 004.

- Participated in the one day Seminar on "**Open Source Intelligence - Network, Application &**

Security" on 31st August 2016, Organized by MCA forum and Dept. of MCA, Bapuji Institute of Engineering and Technology, Davangere-577 004.

- Participated in the one day workshop on **"Research Methodology"** on 28th October 2015 organized by Research & Development cell of Bapuji Institute of Engineering and Technology, Davangere-577 004.

- Participated in the one day workshop on **"Professional application development using .NET "**on 21 August 2015 organized at Department of Master of Computer Applications, Bapuji Institute of Engineering and Technology, Davangere-577 004 in association with Bhoomi Softwares, Davangere

- Attended Two day workshop on **"Insight on advanced Java with exposure to Selenium & e-Commerce"** on 22nd and 23rd August 2014 organized at Department of Master of Computer Applications, MCA Forum, Bapuji Institute of Engineering and Technology, Davangere-577 004 in collaboration with Mahat Consulting, Bangalore

- Attended one day workshop on **"Android Application Development"** on 26th March 2014 organized at Department of Master of Computer Applications, MCA Forum, Bapuji Institute of Engineering and Technology, Davangere-577 004 in association with ISTE Student Chapters', BIET, Davangere

- Attended one day workshop on **"Research Add-ons"** on 19th March, 2014 organized at Department of Computer Science and Engineering, BIET, Davangere in association with ISTE students' chapter, BIET, Davangere.

- Attended knowledge sharing workshop on "Software Project Management" in association with VTU, Belgaum at RiiiT Mysore Campus on 14th Dec 2013.

- Attended one day workshop on "Train the Trainer" workshop on Campus Connect STAR PRIME in June 2011at Infosys, Bangalore.

- Participated in "IBM Community Edition", workshop during 25th & 26th July 2008, held at BIET, Davanagere organized by IBM.
  - Attended two day workshop on "Software Quality Management, Test Automation and Re-engineering" organized by the Dept.of MCA , NMAM Institute of Technology, Nitte, on 18th & 19th January 2008.

Extra/Co-curricular Activities

- Invited as a Project Evaluator for "**Progyan 6.0**", open -house project Exhibition from CS & E Department, BIET, Davanagere on 16th May 2024.
  - Invited as a resource person for conducting workshop on "**A Comprehensive Study on Python Programming**" on 20th February 2024 at Bapuji B -Schools Davanagere for MBA students.
  - Appointed as **BOE** member from VTU Belagavi.
  - Worked as **External Deputy Chief Examiner** for VTU examination during Jan 2023-24.
  - Working as an editorial member of Institute Magazine Techno wave from 2014-15 till date.
  - Worked as External Deputy Chief Superintendent at GMIT, Davanagere for conducting VTU examinations during June 2013-14.
- Handled classes for Infosys campus connect foundation program during the year 2008-09 and 2009-10.

Research Plan

Following are the research goals for the next five years

- Writing Proposals and working towards collaboration.
- Applications of Machine Learning, Deep learning in the field of precision Agriculture.

Dr. Geetha M

Associate Professor,

Dept. of MCA, BIET

Davanagere-577004