

### *Personal Information*

Name	Ms. K. Bharathi
Years of Experience	Teaching: 24 Years Research: NIL Industry: NIL
Email Id	bharathi.k@bvrithyderabad.edu.in
Areas of Specialization	Image Processing



### *Educational Qualifications*

PG Degree	M.Tech.	Computer Science Engineering
PG Degree	M.C.A.	Computer Applications
UG Degree	B.Sc.,	Computer Science

### *Patents Published:*

1. A deep learning model for vulnerability detection and smart protection of various transactions in financial institutions. Application no. 202241040650.
2. Facial expression based HRV estimation using IOT and neural network. Application no.202241043115

### *Papers Published*

1. **K. Bharathi**, and Dr M Chandra Mohan; “Effective image retrieval based on an optimized algorithm utilizing a novel WOA-based Convolution neural network classifier”, Journal of Integrated Science and Technology (JIST), vol 3, Issue 11, 22-Mar’23, ISSN-2321-4635
2. **K. Bharathi**, and Dr M Chandra Mohan; “Bag of Visual Words and CNN approaches for Content-Based Image Retrieval using HOG, GCH and ORB Features”; Journal of Theoretical and Applied Information Technology (JATIT); Vol:100 Issue: 15-SEP-2022.-E-ISSN:1817-3195 Pages: 5591 to 5599.
3. **K. Bharathi**, and Dr M Chandra Mohan; “A Deep Learning Approach for Content-based Image Retrieval using Sparse Auto-Encoder”; Turkish Journal of Computer and Mathematics Education Vol.13 No.03 (2022), 27-32.
4. **K. Bharathi**, and Dr M Chandra Mohan; “Image Search Engine for CBIR using HSV Histogram Colour features”; Journal of Engineering Science; Vol 13, Issue 05, May 2022; ISSN NO: 0377-9254; Pages: 815-820.
5. **K. Bharathi**, and Dr M Chandra Mohan; “Content Based Image Retrieval: An Overview of Architecture, Challenges and Issues” during “International Conference on Applied Sciences, Engineering, Technology and Management”, International Journal of Engineering Research in Computer Science and Engineering, Vol 4, Issue 12, pp. 31-36, December 2017. ISSN2394-2320.

6. **K. Bharathi**, and Dr M Chandra Mohan; “An effective Image Retrieval using Color Features” in International Journal of Scientific Research and Review, Volume 7, Issue 6, pp.768-776, 2018. ISSN: 2279-543X

### ***Books & Book Chapter***

1. Ramanujam E, P. Meena Kumari, and **K. Bharathi** "Usage of IoT, High Performance Computing, Machine/Deep Learning in Human Activity Recognition(HAR) System: Challenges and Opportunities ", CRC

### ***FDPs, Conferences and Workshops Organized***

1. State level FDP on Research Process, Publications & Evaluation At Loyola Academy on 21st October 2017
2. A two-day National Level Conference on “Loyola Academy National seminar on Analytics” (LANS 2018)” from 18<sup>th</sup>to19<sup>th</sup> November 2018.

### ***Conferences, Refresher Courses, Staff Development Programs Attended***

- 20 Days of Faculty/Student Development Program on **R Programming** held from 7th Sep 2020 to 5th Oct 2020
- **Digital Information Resources-Search Strategies** held on 17th July, 2020 Organized by Library & Information Science, R.B.V.R.R. Women’s College
- Third JNU Workshop for Empowering Teaching through Online Mode (JNU-WETOM III) on Theme ‘**Online Assessment and Evaluation**’ held on June 13-14, 2020.
- Participated in the **Online FDP on "Effective Online Teaching Strategies"** held on 6th June, 2020 hosted by Marian International Institute of Management, Kuttikkanam, Kerala.
- one-day online workshop on **Plagiarism - An Opportunity to Learn, Teach & Grow** PANDIT MADAN MOHAN MALVIYA NATIONAL MISSION ON TEACHERS AND TEACHING, MHRD, GOVERNMENT OF INDIA GURU NANAK DEV UNIVERSITY, AMRITSAR held on 5<sup>th</sup> June’2020
- Participated & completed successfully AICTE Training and Learning (ATAL) Academy online FDP on "**Augmented Reality (AR)/ Virtual Reality (VR)**" from **25-05-2020 to 29-05-2020**at**Indian Institute of Technology, Patna.**
- Attended a two day online national faculty development program on “**Mathematics for Computer Science**” organized by department of M.S.Cs, Loyola Academy, Secunderabad during 30<sup>th</sup>-31<sup>st</sup> May’2020.
- Attended a two day webinar on “**Image Processing and Computer Vision-Industrial Perspective**” organized by Chalapathi Institute of Technology, Guntur during 27<sup>th</sup>-28<sup>th</sup> May’2020.
- Attended a two day national webinar on “**Artificial Intelligence and Machine Learning**” organized by department of M.C.A, Loyola Academy, Secunderabad during 20<sup>th</sup>-21<sup>st</sup> May’2020.
- Attended a three day online workshop on “**Outcome Based Education & Online Course Design, Development and Delivery**” organized by department of Education & Education Technology, School of Social Sciences& School of Management Studies, University of Hyderabad, Hyderabad during 16<sup>th</sup>-18<sup>th</sup> May’2020.

- Attended a national level Faculty Development Webinar on “**ICT Tools in Education (Experiential learning with online simulations and virtual labs)**” organized by RBVRR Women’s College, Hyderabad on 5<sup>th</sup> May’2020.
- One Week FDP on “**Machine learning**” organized by MJIT, Hyderabad from 3<sup>rd</sup> May – 8<sup>th</sup> January, 2017.
- One Week FDP on “**Python and R Programming**” organized by the E & ICT academy, NIT Warangal at Department of CSE, Anurag group of Institutions(A), Ghatkesar from 1<sup>st</sup> May – 6<sup>th</sup> May 2017.
- One day seminar on “**Research Process, Publications & Evaluation**” organized by CSI, Hyderabad chapter on 28<sup>th</sup> Jan’ 2017
- One day national seminar on “**Applications of Mathematics to Cryptograohy**” by Loyola Academy Degree and PG College on 6<sup>th</sup> Jan’2017
- Two-day workshop on “**Analytics using R**” organized by CSI, Hyderabad chapter during 2<sup>nd</sup> and 3<sup>rd</sup> July’ 2016
- National Conference on Recent **Trends in Information Technology’13** during 22<sup>nd</sup>& 23<sup>rd</sup> March 2013 at CBIT, Hyderabad.
- National workshop on **Cloud Computing & Security Issues** during 12<sup>th</sup>& 13<sup>th</sup> July 2012 at Osmania University, Hyderabad.
- Faculty Development Program on **Data Mining Tool “Weka”** during 29<sup>th</sup>& 30<sup>th</sup> June 2012 at CSI, Hyderabad.
- Faculty Development Program on **Data Mining** during 27<sup>th</sup> Feb – 2<sup>nd</sup> Mar 2012 at AMS School of Informatics, Hyderabad.
- Object Oriented Analysis & Design using UML by IBM during 4<sup>th</sup> – 7<sup>th</sup> Sep 2011.
- Faculty Development Program on **A Practical & Industry Approach to Advanced Software Engineering** during 25<sup>th</sup> May 2011 at Osmania University, Hyderabad.
- Faculty Development Workshop on **PHP & PYTHON** during 25<sup>th</sup>& 26<sup>th</sup> March 2011 at P.R.R College of Computer Science, Hyderabad.
- National Workshop on **Research Trends in Computer Science** during 4<sup>th</sup>& 5<sup>th</sup> March, 2011 at MJ College of Engg. & Tech, Hyderabad.
- National Workshop on **Middleware Technologies** during 19<sup>th</sup> – 21<sup>st</sup> March 2009 at Osmania University, Hyderabad.
- National Workshop on **Data Mining** during 15<sup>th</sup>& 16<sup>th</sup> May 2008 at Osmania University, Hyderabad.
- Faculty Development Program conducted by Satyam during 22<sup>nd</sup> – 24<sup>th</sup> Sept 2005 at CBIT, Hyderabad.

- Refresher Course on **Design & Analysis of Algorithms** during 23<sup>rd</sup>& 24<sup>th</sup> March 2004 at AMS School of Informatics, Hyderabad.
- National Workshop on **Object Oriented System Development** during 7<sup>th</sup>& 8<sup>th</sup> Nov 2003 at Vasavi College of Engg., Hyderabad.
- National Workshop on **Content Development & Standards in e-Learning** during 28<sup>th</sup> - 30<sup>th</sup> July 2003 at Engineering Staff College of India, Hyderabad.

### ***Certifications***

#### ***NPTEL Domain Certification in Data Science with the following subjects (July-Dec 2023):***

- Machine Learning
- Learning Analytics Tools
- Deep Learning
- Programming, Data structures and Algorithms using Python.
- Data Analytics with Python
- Computer Vision

#### ***NPTEL Certifications***

- Python for Data Science
- Data Science for Engineers
- Business Statistics

#### ***Any Other Achievements***

1. Received certification of appreciation for being recognized as NPTEL MOTIVATED LEARNER (Jan-Apr 2023)
2. Received certification of appreciation for being recognized as NPTEL DISCIPLINE STAR in Computer Science & Engineering (Jan-Apr 2023)