NAME: Dr. Asha Gowda Karegowda

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Education

	Degree	Year	Institute	Specialization
1	B.Sc. (CS)	1992	Nagpur University, Maharashtra	Computer Science
2	MCA	1998	Bangalore University, Karnataka	Computer Science
3	M.Phil	2008	Madhurai Kamaraj University, Tamilnadu	Computer Science
4	Ph.D.	2013	Visvesvaraya Technological University, Belgaum, Karnataka	Data Mining

Professional Experience

	Date (from-to)	Designation	Organization
1	2011 till date	Associate Prof.	Siddaganga Institute of Technology, Tumkur
2	2005 to 2010	Assistant Prof.	Siddaganga Institute of Technology, Tumkur
3	1998 to 2005	Lecturer	Siddaganga Institute of Technology, Tumkur

(Please fill in reverse order. Current designation should be at the top)

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

- NBA coordinator (till date), Dept. of MCA, Siddaganga Institute of Technology, Tumkur.
- MCA Research Center Head, Dept. of MCA, SIT
- MCA Dept. Research Committee coordinator
- MCA Dept. Patent Coordinator

- MCA Dept. Strategic planning coordinator
- MCA Dept. Dept. Academic Advisory committee (DAAC) convener, SIT
- MCA Dept Department Project Evaluation Committee (DPEC) member
- NAAC coordinator (till 2023) , Dept. of MCA, SIT
- Department Magazine Editorial team member, Seminar evaluation committee member, Department Mini project evaluation committee member (till 2023)
- Internal Auditor (Institute level)
- Internal Squad member (till 2024 Institute level)
- Member of Board of Studies, Dept. of MCA, SIT (2010 till date)
- Member of Board of Examination, Dept. of MCA, SIT (2010 till date)
- MCA Dept. Sports coordinator, SIT (2021-2022)
- Coordinated events in Dept. fest Browse and Zerone
- Coordinated events in College fest Spandana and Halcyon
- Coordinator for Bridge Course on   Problem Solving through Programming in C, 12th - 13th December and 16th -18th Dec 2024 for first semester MCA students, Department of MCA, Siddaganga Institute of Technology, Tumkur
- Coordinator of 3 days Induction Program for MCA first year students during 19th-21st Dec 2024, Department of MCA, Siddaganga Institute of Technology, Tumkur
- Coordinator for "Comprehensive PHP Workshop: Building Websites and Dynamic Web Applications", 14th–15th   Dec 2024 for MCA first year students, Department of MCA, Siddaganga Institute of Technology, Tumkur
- Coordinated Guest lecture on   "Data Structures for Interviews: How to Think and Solve Efficiently" on 15th March 2025, Department of MCA, Siddaganga Institute of Technology, Tumkur
- Coordinator for Two day workshop on "Unlocking Selenium: Hands-on Automation Testing Workshop" ,10th – 11th Aug 2024, Department of MCA, Siddaganga Institute of Technology, Tumkur
- Coordinator for One day seminar on Data Structures: An Industry Perspective, Department of MCA, Siddaganga Institute of Technology, Tumkur, 13th April 2024
- Coordinator and Resource person for One week FDP on Introduction to Python Programming 22nd Feb -1st Mar 2023,   Department of MCA, Siddaganga Institute of Technology, Tumkur , for Non IT faculty members of SIT.
- Coordinator for One day workshop on "Digital Marketing with Social Media ", 7th Jan 2023, Dept. of MCA, SIT, Tumkur, for   BCA students from Tumkur
- Coordinator for Value added course On   Software Testing: An Industry Perspective , April-June 2023, Department of MCA, Siddaganga Institute of Technology, Tumkur
- Coordinator and Resource person for 2 day workshop on Python programming, 16th -17th June 2022, Dept. of MCA, SIT, Tumkur .   BCA   students   from Tumkur
- Coordinator for Six Day FDP on "Data Analytics and Data Science", July 11th to July 15th 2022, Dept of MCA, SIT, Tumkur , for   MCA faculty members
- Coordinator for One Week Online Faculty Development Program Deep Learning & Its Applications, 13th September To 17th September 2021, Dept. of MCA, SIT, Tumkur , MCA faculty members.

Affiliations of Professional organizations

- Board of Study member Dept. of BSc, BCA (Data science), Tumakuru University, Tumkur (from June 2023 till date).
- BoE member, Dept. of MCA, PES Mandya, Karnataka (from 2023 till date).
- BoS member (as VTU Nominee), Dept. of MCA, RNSIT, Bangalore (from 2024 till date)
- BoS member, Dept. of MCA, Gogte Insitute of Technology, Belgavi(from 2024 till date)
- BoE member, Dept of MCA, Jnana Bharathi Camputs, Banglore University(2024 till date)
- BoE member Dept. of MCA, BMCE, Bangalore (2017-19)
- BoE member Dept. of MCA, Sri Siddhartha Institute of Technology, Maralur, Tumkuru (from 2016 till date)
- BoE member, Dept. of MCA, Tumakuru University, Tumkur (from 2019-23).
- Board of Study member Dept. of MCA, Sri Siddhartha Institute of Technology, Maralur, Tumkuru (from 2016 till date).
- Board of Study member Dept. of MCA, MSc Data Science, MSc. Computer Science, Tumakuru University, Tumkur (from 2019-20 till date).
- Doctoral committee member for Ph.D candidates

Courses Taught

Undergraduate Courses
- Foundations of Computer Science –II(UG)OE
- Foundations of Computer Science –I (UG)OE
- Programming in C (I sem BE)
- Data Structures using C) 5th Sem BE OE
- Data Analytics OE VI Sem BE and VII Sem BE
- Python Programming (UG) 7th sem BE   OE

Postgraduate Courses
- COBOL
- Software Engineering
- Data Structures using C
- Programming Concepts and C language
- Computer Organization

- Data Structures using C++
- Data Mining & Data Warehousing
- Data Mining
- Digital Marketing
- Operating System
- Big Data Analysis
- Software Testing
- Data Structures and Algrothims
- Data Description and visualization **(MBA)**

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
1	Poornima D. (1SI15PEJ05)	Medical diagnosis of Thyroid Disorders using Ultrasound Images. (Part Time)	**VTU,** 2021
2	Pushpalatha K R. (1SI15PEJ14)	Classification and Grading of Grains Using Soft Computing Assisted Machine Leaning Techniques. (Part Time)	**VTU, 2**021
3	Geeta M. (1SI17PEA01)	Mapping And Yield Estimation Of Crops In Davangere Region Using Synthetic Aperture Radar(SAR) Imagery. (Part Time)	**VTU** 2023

Research Areas

- Data mining
- Machine learning
- Image processing
- Wireless Sensor Networks

Publications

Journals (**Indexed**)

- Suman Pawar, Roopa Farshi, Asha Gowda Karegowda, Pooja Bhat, Pragathi M S, Affordable, biodegradable, and environmentally friendly sanitary napkins for rural women, with a focus on degradation study, Results in Engineering, Volume 24,2024, 102988, ISSN 2590-1230, https://doi.org/10.1016/j.rineng.2024.102988., https://www.sciencedirect.com/science/article/pii/S259012302401243X
- Geetha M., Karegowda, Asha Gowda, Nandeesha, & Nagaraj B. V. (2023). Classification of Sentinel 2 Images using Customized Convolution Neural

Networks. International Journal of Intelligent Systems and Applications in Engineering, 11(1s), 136–142. https://ijisae.org/index.php/IJISAE/article/view/2485

- Geetha M., Asha Gowda Karegowda, Nandeesha R., & Nagaraj B. V. (2022). 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, 10(4), 574–581. Retrieved from https://ijisae.org/index.php/IJISAE/article/view/2326 (published and indexed 16.12.2022)

- Devika, G., Ramesh, D. Asha GowdaKaregowda Firefly and Grey Wolf search based multi-criteria routing and aggregation towards a generic framework for LEACH. Int. j. inf. tecnol. 14, 105–114 (2022). https://doi.org/10.1007/s41870-021-00763-2

- Devika, G., Ramesh, D., Asha Gowda Karegowda, Energy optimized hybrid PSO and wolf search based LEACH. International Journal of Information Technology. 13, 721–732 (2021). https://doi.org/10.1007/s41870-020-00597-4 (Received19 July 2019,• Accepted 02 December 2020,• Published19 January 2021• Issue Date April 2021(SCOPUS INDEXED SPRINGER).

- Devika G., Asha Gowda Karegowda , Ramesh D., Survey of WSN Routing Protocols, International Journal of Applied Evolutionary Computation (IJAEC), Volume 11,Issue 1, Jan-Mar 2020, DOI: 10.4018/IJAEC.2020010103, 18 pages, IGI publishers. (SCOPUS)

- Devika G., Ramesh, D. , Asha Gowda Karegowda, Analysis of Binary and Discrete Grey Wolf Optimization Algorithms Applied for Enhancing Performance of Energy Efficient Low Energy Adaptive Clustering Hierarchy, Journal of Computational and Theoretical Nano science, Volume 17, Numbers 9-10, September/October 2020, pp. 3850-3859(10), Publisher: American Scientific Publishers, DOI: https://doi.org/10.1166/jctn.2020.8974. SCOPUS

- Devika, G., Ramesh, D. & Asha Gowda Karegowda, Mushroom Edibility Identification Applying CBR and Ant Lion Techniques in Multi-sensor Environment. SN COMPUT. SCI. 2, 225 , April 2021, https://doi.org/10.1007/s42979-021-00582-z (through International ACI-2020, GSSS Mysore, Dec-2020 (SCOPUS)

- Asha Gowda Karegowda, Pushpalatha.K.R, Pramod.P., Mobile App for Grading of Peanuts using Fuzzy Inference System , International Journal of Engineering and Advanced Technology (IJEAT)ISSN: 2249–8958,Volume-9 Issue-1, October 2019, pp 1262-1269DOI: 10.35940/ijeat.A9629.109119, EID: 2-s2.0-85074634315, Part of ISBN: 22498958 . (SCOPUS)

- Geetha M, Asha Gowda Karegowda, H S Sudhira, ―Land Use and Land Cover Mapping of Davangere using Google Earth Engine‖ International

Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-3, pp 474-477, September 2019.(Published By: Blue Eyes Intelligence Engineering & Sciences, Scopus Indexed Paper. DOI: 10.35940/ijrte.A1109.098319, EID: 2-s2.0-85073741359, Part of ISBN: 22773878

- Asha Gowda Karegowda, B. G Premsudha, Devika G, A Pragmatic Study of Evolutionary Techniques Based Energy Efficient Hierarchical routing protocols - LEACH And PEGASIS, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 17 (2015) pp. 38274-38285.. EID: 2-s2.0-84942740985,Part of ISBN: 09739769 09734562

- Asha Gowda Karegowda, Jayaram, M.A., Manjunath, A.S., Cascading k-means with Ensemble Learning:Enhanced Categorization of Diabetic Data, Journal of Intelligent System, 2012, 21(3), pp. 237–253

Journals (**Non Indexed**)

- Suman Pawar, Asha Gowda Karegowda, Uma K, A study on growth of Oyster and Milky mushroom cultivation process in Tumakuru region, Journal of educational and social research ,Volume VIII Number III September 2022

- M.S Darshan, Dr. Asha Gowda Karegowda, Performance Review in Developing Excellence, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056, Volume: 07 Issue: 06 | June 2020. https://www.irjet.net/archives/V7/i6/IRJET-V7I61202.pdf

- Apoorva HK, Somdatta Basu, Asha Gowda Karegowda, Development of an App for HR Professionals, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056, Volume: 07 Issue: 06 | June 2020   https://www.irjet.net/archives/V7/i6/IRJET-V7I61201.pdf

- Bhat Shreetha, Karegowda Asha Gowda, "Railway Track Monitoring Using Deep Learning Techniques: A Preview", International Journal of Applied Research on Information Technology and Computing 2020, Volume : 11, Issue : 3, Online published on 15 February, 2022

- Poornima. D, Asha Gowda Karegowda, "Design of a Classifier System using Machine Learning Techniques for Diffuse Goiter Diagnosis", CiiT International Journal of Artificial Intelligent Systems and Machine Learning, Vol. 11, No. 01, January, 2019 (Non-paid journal). pp 7-11. Digital Object Identifier: AIML012019002.

- Poornima D., Asha Gowda Karegowda, Performance Analysis of Various Filters for De-Speckling of Thyroid Ultrasound Images, International Journal of Engineering and Advanced Technology (IJEAT)ISSN: 2249–8958,Volume-9Issue-2, December, 2019 , pp 910-917. DOI: 10.35940/ijeat.A2015.129219

- Poornima D , Asha Gowda Karegowda , A Review of Image Segmentation Techniques Applied to Medical Images, International Journal of Data Mining And Emerging Technologies, Volume 8, issue 1, Page: 78-94, May 2018. (Non paid journal). DOI: 10.5958/2249-3220.2018.00010.1
- Pushpalatha.K.R, Asha Gowda Karegowda "Automatic Classification of Bulk Food Grains Using Machine Learning Assisted Computer Vision-A Survey", International Journal of Data Mining and Emerging Technologies, Volume 8, issue 1, Page: 36-43, May 2018. (Non paid journal). DOI: 10.5958/2249-3220.2018.00005.8
- Asha Gowda Karegowda, Poornima D. Sindhu N, Bharathi P.T,", Performance Assessment of k-Means, FCM, ARKFCM and PSO Segmentation Algorithms for MR Brain Tumour Images", International Journal of Data Mining And Emerging Technologies, Volume 8, issue 1, Page: 18-26, May 2018. (Non paid journal). Print ISSN : 2249-3212. Online ISSN : 2249-3220.Article DOI : 10.5958//2249-3220.2018.00003.4
- K.R. Pushpalatha, Asha Gowda Karegowda, Comparative Study of Classification of Split Bulk Grams Using Different Significant Feature Selection Techniques, International Journal of Applied Research on Information Technology and Computing, Vol. 9, Issue 3, September-December, 2018 (IJARITAC) 225-237. Article DOI : 10.5958/0975-8089.2018.00022.2
- Poornima.D, Asha Gowda Karegowda, "Comparative Study of FCM, ARKFCM, K-Means and PSO Based Algorithms for Segmentation of Thyroid Nodules", CiiT International Journal of Digital Image Processing, pp. 186-191, Vol. 10, No. 10, October 2018 (Non-paid journal). Digital Object Identifier: DIP102018002
- D. Poornima, Asha Gowda Karegowda, PT. Bharathi, A Comprehensive Review of Medical Image-processing Techniques for Thyroid Disorders, International Journal of Applied Research on Information Technology and Computing IJARITAC ,Vol. 8, No. 1, pp 56-80,Jan-April 2017. (Non paid journal).
- D. Poornima, Asha Gowda Karegowda, PT. Bharathi, A Pragmatic Review of Denoising Techniques Applied for Medical Images, International Journal of Applied Research on Information Technology and Computing IJARITAC ,Vol. 8, No. 1, pp 81-104,Jan-April 2017. (Non paid journal).
- Pushpalatha K. R., Asha Gowda Karegowda , D. Ramesh, Identification of Similar Looking Bulk Split Grams using GLCM and CGLCM Texture Features, International Journal of Computer Applications (0975 – 8887) Volume 167 – No.6, pp 30-36, June 2017.
- Asha Gowda Karegowda, Supriya MC, M.A. Jayaram, Prashant GK ,Determination of Brinell Hardness of Metals through Image Processing,

International Journal of Applied Research on Information Technology and Computing IJARITAC Vol. 7, No. 2, pp. 113-118, August 2016. (Non paid journal).

- Bharathi P.T. , P Subhashini, Asha Gowda Karegowda Extreme Learning Machine based Differential Evolution Feature Selection approach for Feature subset reduction from Digital images, International Journal of Applied Research on Information Technology and Computing IJARITAC, Vol. 7, No. 2, pp 119-131, August 2016. (Non paid journal).

- Devika, Keshava, Asha Gowda Karegowda,An energy Efficient Data-collecton Cluster-Tree-Based Routing Protocol for Small and Large Mobile Wireless Sensor Network, International Journal of Applied Research on Information Technology and Computing IJARITAC ,Vol. 7, No. 2, pp 140-145, August 2016. (Non paid journal).

- Asha Gowda Karegowda, Divya, Bharathi P.T Content-Based Image Retrieval Performance Using Texture and Colour Features, International Journal of Data Mining and Emerging Technologies ,Vol 6(2), pp 52-60, 2016 (non paid journal), Print ISSN : 2249-3212. Online ISSN :2249-3220. Article DOI : 10.5958/2249-3220.2016.00008.2

- Kavya RM ,Asha Gowda Karegowda, Bharathi P. T. , H. K. Virupakshaiah, Image Processing Techniques Based Plant Disease Detection: A Pragmatic Review, International Journal of Advance Foundation and Research in Computer (IJAFRC) Volume 3, Issue 8, pp 1-5, September – 2016.

- Geetha M , Asha Gowda Karegowda ,—Crop Mapping using SAR Imagery : A Review" ,International Journal of advanced research in Computer Science ISSN 0976-5697, Volume 7, No.7, pp 47-52, November-December 2016.

- HS. Vijaya Kumar, M.A. Jayaram, Asha Gowda Karegowda ,Bharathi P.T, A Comparative Study on Filters with Special Reference to Retinal Images, International Journal of Computer Applications (0975 – 8887) Volume 138 – No.5, March 2016 ,pp 36-41.

- H. S. Vijaya Kumar, M. A. Jayaram and Asha Gowda Karegowda,Hard Limiting and Soft Computing Techniques for Detection of Exudates in Retinal Images: A Futuristic Review, British Journal of Applied Science & Technology,Vol12(6),pp: 1-20, Jan 2016, Article no.BJAST.20735.

- C.B. Bhanuprakash, G.K. Prashant, Asha Gowda Karegowda, Ramesh CN, Texture Based Flower Species Classification Using Neural Network, International Journal of Advance Foundation and Research in Computer (IJAFRC), Volume 3, Issue 6, June - 2016

- Devika G, Asha Gowda Karegowda, "A Pragmatic Study of LEACH and its Descendant Routing Protocols in WSN ", International Journal of Computational Intelligence and Informatics, Vol 4, N0 4, pp 300-307, March 2015 (through 1 National Conference on Research Issues in Image Analysis

& Mining Intelligence, Erode Arts & Science College ,Erode ,Tamil Nadu, India., Feb 2015.)

- Asha Gowda Karegowda, Samreen S, Pushpalatha KR, " Automated Detection And Classification Of Images Using Color And Texture Features – A Survey", International Journal of Inovative Research n Computer and Communications engineering, Vol. 3, Special issue, May 2015, PP 248-253 (through International conference on Advances in computer and Communication Engineering(ACCE-2015)

- Chaitra M, Asha Gowda Karegowda, Heena Kousar, " K_Means Clustering Assisted Automated Exudate Detecial In Retinal Images " , ELK Asia Pacific Journal – Special Issue ISBN: 978-81-930411-5-4, pp 170-174, 2015 (through ICRBIT-2015)

- Devika G, Asha Gowda Karegowda, "Performance Enhancement of LEACH, V-LEACH and MOD-LEACH Clustering Routing Protocols for Wireless Sensor Networks", ELK Asia Pacific Journal – Special Issue ISBN: 978-81-930411-5-4 (through International Conference on Research in Business management & Information Technology (ICRBIT - 2015), April 29 – 30, 2015).

- Asha Gowda Karegowda, Bharathi P.T., Enhancing CBIR Performance Using Evolutionary Algorithm-Assisted Significant Feature Selection: A Filter Approach, International Journal of Applied Research on Information Technology and Computing Vol. 7, No. 1, pp 53-59, April 2016. NON PAID JOURNAL.

- Dhanalakshmi N, Asha Gowda Karegowda, Radha N, Predictive Model for Blood-Brain Barrier, International Journal of Advance Foundations and Research in Computer,Vol.2(8), pp.11-22, Aug 2015.

- D. Poornima, Asha Gowda Karegowda, A Pragmatic Review of Data Mining Techniques for Thyroid Categorization Aloy Journal of Soft Computing and Applications, Volume: 3 Issue: 1, pp. 24-46, 2015 NON PAID JOURNAL.

- Devika, G & Sudha B G, Prema & Karegowda, Asha. (2015). Comparative Study of Energy-Efficient Hierarchical Wireless Sensor Network Protocols. International Journal of Applied Research on Information Technology and Computing, Vol 6, 2015, pp 189-196. DOI: 10.5958/0975-8089.2015.00024.X.

- Lalitha Shastry, Asha Gowda Karegowda, Latha Raju, A Survey on Functional and Non-functional Testing Tools released during 2000-2013 , The International Journal of Computer Science & Applications (TIJCSA) , Vol 2, No. 12, June 2014.

- Asha Gowda Karegowda, Kishore B, Enhancing Performance of KNN classifier by means of Genetic Algorithm and Particle swarm optimization, International Journal of Advance Foundations and Research in Computer, -Vol. 1(5), pp.24-35, Jan 2014. (impact factor :0.853).

- Asha Gowda Karegowda, Sushil Kumar, GA and PSO based prototype Generations for nearest prototype classifier, International Journal of Data Mining And Emerging Technologies, Vol. 4(2), pp 100-106, Nov 2014. Non paid journal.
- Sanket Kamat, , Asha Gowda Karegowda , A Brief Survey on Cuckoo Search Applications , International Journal of Innovative Research in Computer and Communication Engineering ,Vol.2, Special Issue 2, pp. 7-14, May 2014 (Proceedings of International Conference On Advances in Computer & Communication Engineering on 21-22 April 2014, Vemana Institute of Technology, Bangalore, India.
- Asha Gowda Karegowda, Mithelesh Prasad, A Survey of Applications of Glowworm Swarm Optimization Algorithm, International conference on computing and Information Technology, 23-24 Sept 2013, Algappa Univerisy, Tamil Nadu, Published in International Journal of Computer Applications, pp – 39-42, Dec 13, 2014
- Asha Gowda Karegowda, Enhanced Categorization of Wheat Seeds by Integrating Ensemble methods with Decision Tree Identified Significant Features, International Journal of Data Mining And Emerging Technologies, Vol. 4(1), pp 10-15, May 2014. Non paid journal.
- Asha Gowda Karegowda, Shilpa Bhat, Dhanlakshmi N, 2014, Comparing CBIR for RGB Images Using Color Histogram Quantization with Euclidean and Bhattachatyya Distance Asha, International Journal Of Engineering Research & Technology (IJERT) NCITSF – 2014 (Volume 2 – Issue 11), DOI : 10.17577/IJERTCONV2IS11072   (through National Conference on Information Technology for Sustainable Future, 9th May 2014, Mahavir Jain University, Bangalore)
- Asha Gowda Karegowda, M.A. Jayaram ,"Significant Feature Set Driven, Optimized FFN for Enhanced Classification ", International Journal of Computational Intelligence and Informatics ISSN: 2231-0258, Vol 2, No 4, pp. 248-255,Mar 2013. Non paid journal.
- Asha Gowda Karegowda , Seema Kumari, Particle Swarm Optimization Algorithm Based k-means and Fuzzy c-means clustering, , International Journal of Advanced Research in   Computer Science and Software Engineering Vol. 3, Issue 7, pp. 446-451, July 2013
- Asha Gowda Karegowda , Darshan M. "Optimizing Feed Forward Neural Network Connection   Weights Using Artificial Bee Colony Algorithm", International Journal of Advanced Research in   Computer Science and Software Engineering Vol. 3, Issue 7, pp. 452-454, July 2013.
- Asha Gowda Karegowda, M.A. Jayaram, A.S. Manjunath " Cascading k-means with Ensemble Learning: Enhanced Categorization of Diabetic Data , Journal of Intelligent Systems , 23(3): 237-254,   Dec 2012. DOI:

10.1515/jisys-2012-0010, EID: 2-s2.0-84867130789, Part of ISBN: 03341860 (SCOPUS)

- Ajay Kumar.A.H., Asha Gowda Karegowda, 2013, Applications of Cloud Computing: a Survey, International Journal Of Engineering Research & Technology (IJERT) NCRTICE – 2013 (Volume 1 – Issue 04)

- Asha Gowda Karegowda , Pushpa KR, Chitra M. "Color Histogram based Image Retrieval – A Survey ", International Journal of Advanced Research in Computer Science, Vol. 4, Number 11, pp.119-126, Nov-Dec 2013.

- Asha Gowda Karegowda, Enhancing BPN Performance using GA Identified Significant Features: A Case Study for Categorization of Heart Statlog Dataset, International Journal on Computer Applications(IJCA) Proceedings on International Conference on Computing and information Technology 2013 IC2IT(1),pp 1-4, December 2013.

- Asha Gowda Karegowda , M.A. Jayaram, A.S. Manjunath ,"Cascading K-means Clustering and K-Nearest Neighbor Classifier for Categorization of Diabetic Patients" , International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Vol.-1, Issue-3, February 2012.

- Asha Gowda Karegowda , M.A. Jayaram, A.S. Manjunath ,Punya , " Rule Based Classification for Diabetic Patients Using Cascaded K-Means and Decision Tree C4.5",vol45, issue-12, May 2012, International Journal on Computer Applications(IJCA) (Impact Factor 0.835).

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- Asha Gowda Karegowda , A.S. Manjunath , M.A. Jayaram "Application Of Genetic Algorithm Optimized Neural Network Connection Weights For Medical Diagnosis Of Pima Indians Diabetes", International Journal on Soft Computing (IJSC), Vol.2, No.2, May 2011,pp15-23.

- Asha Gowda Karegowda, M.A.Jayaram A.S .Manjunath, "Feature Subset Selection using Cascaded GA & CFS: A Filter Approach in Supervised Learning. International Journal on Computer Applications(IJCA) Vol. 1 , 2011 June, pp.1-5. (Impact Factor 0.835).

- Asha Gowda Karegowda, Sudeshna Bhatacharya, , M.A.Jayaram , A.S .Manjunath, "Exudates Detection in Retinal images using KNNFP and WKNNFP Classifier ", CiiT International Journal of Artificial Intelligent Systems and Machine Learning , July 2011(Print: ISSN 0974 – 9667 & Online: ISSN 0974 – 9543 (Impact factor 0.763)).

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- Asha Gowda Karegowda, A.S. Manjunath, M.A. Jayaram, ,"Comparative Study of Attribute Selection using Gain Ratio and Correlation based Feature Selection", International Journal of Information Technology & Knowledge Management,(IJTKM) Vol 3(2), July-Dec 2010,pp 271-277.
- Asha Gowda Karegowda, Rakesh Kumar Singh, M.A.Jayaram, A.S .Manjunath, "Improving Weighted K-Nearest Neighbor Feature Projections Performance with Different Weights Assigning Methods ", International Journal of Computational Intelligence Research, Vol. 6, Number 4, PP 725-730 (ICCI 2010) (Special Issue of International Conference on Computational Intelligence Organized by GR Govindarajulu School of Applied Computer Technology, Coimbatore, India December 9 – 11, 2010).
- Asha Gowda Karegowda, M.A. Jayaram, Dr A.S. Manjunath , "Feature Subset Selection Problem using Wrapper Approach in Supervised Learning", .International Journal on Computer Applications(IJCA) Vol. 1 , No 7. 2010 ,pp 13-17. (Through International Conference on Furistic Computer Applications, Mar, 2010, IISC,Blore)
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Conference Proceedings (**Indexed)**
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- Asha Gowda Karegowda, Virupakshaiah. H. K, Poornima. D and Leena Rani. A, "A Comprehensive Study on Classification of Desiccated Fruits Using Transfer Learning Models," 2025 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSES), Tumakuru, India, 2025, pp. 1-6, doi: 10.1109/ICSSES64899.2025.11009861.
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Patents

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- Shreetha Bhatt, Asha Gowda Karegowda, , Vidya S, Artificial Intelligence(A)Driven Stalker Band, Filed 2021-08-27 ,   Patent number 202141038902A **Published** 2022-08-12 (Indian Patent)
- Asha Gowda Karegowda, Shreetha Bhatt, Vidya S, Aditya V, Devika G, Smart Peacock Evader-(Raitha Mitra)The Farmer's Friend, Filed 2021-10-04, Patent number: 202141044868A **Published** 2022-08-12 (Indian Patent)
- Asha Gowda Karegowda, Shreetha Bhatt, Leena Rani, Rail Track Defect Detection Based On Novel Artificial Intelligence" , **Filed** 3rd Feb 2025(Indian Patent), application number is 202541008618

Invited Lectures, talks and workshops

- Conducted Training Program on Basic Computer Skills for School Teachers, under the Technical Education Quality Improvement Program (TEQIP), Siddaganga Institute of Technology, 1-8-2005 to 5-8-2005.
- Conducted free coaching classes for the benefits of the students of Siddaganga Matt, Siddaganga Institute of Technology, 2005-2006.
- Invited as resource person for workshop on Rudiments Of Computing and for having a Covered the topic the Fundamentals Of Data Structures, 22nd October 2009, Auden Technology and management Academy.
- Key note speaker for UGC sponsored National conference on Recent Trends in Applications of Mathematics and Computing, Sree Siddaganga College of Arts, Science and Commerce for Women (SSCASCW), Tumkur, July14-15, 2016.
- Invited talk on Data Structures Using C, in Vidya Vahini First grade college, Tumkur, Karnataka, 20-8-2016.
- Invited talk on Data structures using C/C++, in First grade Government college for first year BCA and BSC (PMCs) students on 18/07/2017, Tiptur, Karnataka.
- Resource person for 5 day workshop for faculty, on R and Python Programming on Data Analytics in Siddaganga Institute of Technology, Dept of MCA and ISE, Tumkur, 28-07-2017.
- Resource person for 2 day workshop on Data Analytics using R-Tool, in Bapuji Institute of Technology, Dept of MCA , Davangere, 30th and 31st August 2017.
- Invited talk on Data Structures Using C, in Vidya Vahini First grade college, Tumkur, Karnataka, 23-7-2017.
- Invited talk on Operating System, in Vidya Vahini First grade college, Tumkur, Karnataka, 27-8-2017.
- Invited technical talk on "IOT – Life Karnataka. Simplified using connected objects", Science forum, 17th Jan 2018, First grade Government College, Tiptur.
- Resource person for in house workshop for faculty on Data Analytics using R in Siddaganga Institute of Technology, Dept of Computer Science and Engineering, Tumkur, 26-04-2018.
- Resource person for one UGC_CPE sponsored Skill Development one day workshop on "Programming on Python" held on 23rd July 2018, Department of Computer Science, University College of Science, Tumakuru.
- Expert talk on "Data Mining", Dept. of BCA, ASC college, Bangalore on 1st August 2018.

- Invited talk on Data Mining Trends in Siddaganga Co-ed First grade college, Tumkur, Karnataka, 24-09-2018.
- Invited as resource person for Two Day Workshop on R Tool for Data Mining, Sri Siddhartha Institute of Technology, Dept of Computer Applications, SSIT Campus, Tumkur, 27th & 28th August 2018.
- Invited technical talk on " IOT – Life simplified using connected objects", one day National Symposium on " New India- Emerging Challenges and Evolving Strategies", 12th Oct 2018, ASC Degree college, Bangalore , Karnataka.
- Invited as speaker for One day faculty development programme on "Research Opportunities in Data Science with R', 20th Dec, 2018, Dayananda Sagar College of Arts, Science and commerce, Dept. of MCA.
- Resource person " IoT Applications and Interactive Teaching Methodology ", for one day State Level FDP cum Workshop Program on topic "Experiential Teaching and Learning", in Nobel Group of Institution, Bangalore, On 26th Sept 2019.
- Resource person for "Two Days Workshop on Machine Learning using Python", on 24th & 25th October, 2019, Department of Computer Science & Engineering, Akshaya Institute of Technology, Tumkur.
- Resource person for webinar on "Basics of Association Rule Mining and its Application" organised by ABHAV Foundation on 03th July 2020.
- Resource person for " Introduction to Data structures using C ", Induction program , Dept. of MCA, Post Graduate Programme, Tumkur University, Tiptur, Karnataka, 7th March 2022.
- On line technical talk on " IOT – Life simplified using connected objects", session speaker for 3 day online SDP / Student Development Program, May 30, 31st and June 1st 2022, RNSIT, Bangalore.
- Resource person for one day State level workshop, "Latest Trends in Innovative Technologies", 28th Oct 2022, Tumkur University, Tumkur. Topic-Tableau- A Powerful BI visualization Tool.
- Coordinator and Resource person for 2 day workshop on Python programming, 16th -17th June 2022, Dept. of MCA, SIT, Tumkur . BCA students from Tumkur
- Resource person for " Introduction to Data structures using C ", Induction program , Dept. of MCA, Post Graduate Programme, Tumkur University, Tiptur, Karnataka, 7th March 2022.
- Key note speaker for Orientation Program, Dept. of BCA, 6th Oct 2023, Sri Siddhartha Institute of Technology, SSIT Campus, Tumkur.
- Coordinator and Resource person for One week FDP on Introduction to Python Programming 22nd Feb -1st Mar 2023, Department of MCA, Siddaganga Institute of Technology, Tumkur , for Non IT faculty members of SIT.

- Resource preson for "Hands on Training on Statistics using R- Programming", Dept of Studies and Research in Computer Applications (MCA), Tumkur University, 19th Feb 2024.
- Resource person for one day seminar on "Statistical Computing and R-Programing", Dept. of Computer Science & BCA in association with IQAC, Government First Gade Women's College, B.H. road, Tumkur, 26th Jan 2024.
- Invited as resource person to deliver talk on "Interactive Dashboards using visualization Tools", Post Graduate Dept. of Computer Applications in association with IQAC, Seshadripuram college, Tumkur, 29th April 2024,
- Invited as resource person to deliver special guest lecture on "Data collection and Sampling approaches in Research Methodology", 16th May 2024, Sree Siddagnaga College of Arts, Science and Commerce for Women, Tumkur In association with IQAC.
- Invited as Resource person for delivering expert talk on "Principles of Programming Languages ", Dept. of Computer Science in Association with IQAC, Sree Siddaganga College of Arts Science and Commerce for Women, Tumkur University, 16th Dec 2024.
- Invited as Resource person for one day Students development program titled "Mastering Data Visualization With R Studio: Real Time Insights and 3D Visualization ", Dept. of BCA in association with IQAC, Seshadripuram College (affiliated to Tumkur University), Tumkur , 3rd Jan 2025.
- Invited as Resource person for delivering special talk on "Machine Learning", Dept. of MCA, Post Graduate Center, Tiptur, March 11th 2025.
- Invited as Resource person for one day workshop on "Python Essentials", Dept. of Studies and Research in computer Applications MCA/MSc Computer Science/ M.Sc. Data Science, Jnanasiri campus, Bidarkatte, Tumkur University, Tumkur, 18th March 2025.