NAME: DR. RAJESH YAKKUNDIMATH

Associate Professor & Head

Department of Computer Science & Engineering

K.L.E.Institute of Technology, Hubballi-580027

Dr. Rajesh Yakkundimath - Google Scholar

1.	Educational, professional qualifications,and trainings				
1.1.	**Educational Qualification** (from highest to basic)				
S.N.	**Degree**	**University / College**	**Discipline**	**Year of Passing**	**Class obtained**
a)	Ph.D.	V.T.U,Belgaum	Computer Science & Engineering	2016	NA
b)	M.Tech.	V.T.U,Belgaum	Computer Science & Engineering	2007	First Class
c)	B.E.	V.T.U,Belgaum	Instrumentation Engineering	2004	First Class
1.2.	**Training programmes attended**				
S.N.	**Subject Area of Training**	**Organization**	**Place**	**Period / Duration**	
a)	Image Processing and Machine Learning	SDMCET	Dharwad	17-18 Feb 2017	
b)	Design of Algorithms	IIT	Kharagpur	27 April to 30 May 2015	
c)	Computer programming	IIT	Mumbai	May 20 to June 21 2014	
d)	Outcome based education	KLEIT	Hubballi	24-25 Jan 2014	
e)	Linear algebra and its applications	JNNCE	Shimoga	24-28 January 2011	
f)	Digital image processing	SDMCET	Dharwad	13th -15th March 2009	
g)	ABET	BVBCET	Hubballi	7-8 August 2008	
h)	Information Technology	REC	Hulkoti	19 -20 March 2008	
i)	Machine Learning	KLEIT	Hubballi	27th to 31st Janaury,2018	
j)	Data Analytics	KLEIT	Hubballi	24th to 28th July,2018	

k)	Big Data & IoT	SJBIT	Bengaluru	7th[th] to 12th Janaury,2019
l)	STTP on Deep Learning Tools & Techniques	KLESCET	Belgaum	02/11/2020 to 07/11/2020
m)	STTP on Research Trends in Computer Science and Engineering	SDMCET	Dharwad	21/12/2020 to 26/12/2020
n)	Innovation, IPR, Technology Development and Enterpreneurship	St.Claret College	Bengaluru	14/06/21 to 19/06/21
o)	Research Pardigms	St. Francis College	Bengaluru	03/05/21 to 08/05/21
p)	Applications of Artificial Intelligence & Machine Learning	Reva University	Bengaluru	10/05/21 to 14/05/21
q)	Artificial Intelligence and its Applications	JCET	Mysore	24/05/21 to 29/05/21
r)	Examination reforms	AICTE	New Delhi	08/07/21 to 10/07/21
s)	Block Chain and IoT	CIT	Gubbi	30/12/21 to 05/01/22
t)	Machine Learning Applications on Image Processing	AICTE	New Delhi	17/01/22 to 21/01/22
u)	Data Science with Statistical Methods Using Python	G.H. Raisoni College of Engineering	Nagpur	17/01/22 to 21/01/22
i)	Writing an Effective Research Article: TIPS & TRACKS	KLS VDIT	Haliyal	03/10/2023 to 07/10/2023
j)	STTP on Sales Force	G.H. Raisoni College of Engineering	Nagpur	18/12/2023 to 22/12/2023
1.3.	**Membership of National and International Professional Bodies/Organisations**			
S.N.	**Name of Professional Body/Organization**	**Place**		**Membership Category**
a)	Computer Society of India (CSI)	Chennai		Professional
b)	MIE	Kolkata		Professional

1.4. a)	Technical Papers/Books Published in National / International Events / Journals **Journals**

- Basavaraj S. Anami, Jagadeesh Pujari, Rajesh Yakkundimath (2011). "Identification and Classification of Normal and Affected agriculture/horticulture produce based on combined color and texture feature extraction". International Journal of Computer Applications in EngineeringSciences,1(3), pp.356-360.

- Basavaraj S. Anami, Jagadeesh Pujari, Rajesh Yakkundimath (2011). "Multi-scale Morphological Image Segmentation based modified WatermarkingTechniques". International Journal of Graphics and Image Processing. 1(1),pp.16-23.

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi (2014). "Automatic Fungal Disease Detection based on Wavelet Feature Extractionand PCA Analysis in Commercial Crops". International Journal of Image, Graphics and Signal processing. 6 (1), pp.24-31. DOI: 10.5815/ijigsp.2014.01.04

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi(2013). "Grading and Classification of Anthracnose Fungal disease in Fruits". International Journal of Advanced Science and Technology. 52 (3), pp.121-132.

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi(2013). "Statistical Methods for Quantitatively Detecting Fungal Disease from Fruits Images". International Journal of Intelligent Systems and Applications in Engineering. 1(4), pp. 60-67. **(SCOPUS).**

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi(2013). "Classification of Fungal Disease Symptoms Affected on Cereals Using Color Texture Features". International Journal of Signal Processing, Image Processing and Pattern Recognition. 6 (6), pp. 321-330. DOI: 10.14257/ijsip.2013.6.6.29

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi(2013). "Reduced Color and Texture Features Based Identification and Classification of Affected and Normal Fruits Images". International Journal of Agricultural and Food Science. 3 (3), pp.119-127.

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi(2014). "Recognition and Classification of Normal and Affected Agriculture Produce Using Reduced Color and Texture Features". International Journal ofComputer Applications. 93(11), pp.17-24. DOI: 10.5120/16259-5910.

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi(2014). "Recognition and Classification of Produce Affected by Identically Looking Powdery Mildew Disease". International Journal of Scientific Engineering in Agriculture-Acta Agriculturae. 17(2), pp.29-34. **Quartile:Q2, (SCOPUS). DOI:**10.2478/ata-2014-0007

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi(2014). "Detection and Classification of Fungal Disease with Radon Transform and Support Vector Machine Affected on Cereals". International Journal of Computer Vision and Robotics. 4 (4), pp.261-280. **Quartile:Q4 (SCOPUS). DOI:** 10.1504/IJCVR.2014.065566

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi(2014). "Neuro- kNN Classification System for Detecting Fungal Disease Affected on Vegetables Using Local Binary Patterns". Agricultural Engineering International: CIGR Journal. 16 (4), pp.299-308. **Quartile:Q3 (SCOPUS). Corpus ID: 73648813**

- Jagadeesh D. Pujari, Rajesh Yakkundimath and A.S.Byadgi(2015). "Image processing Based Detection of Fungal Diseases in Plants". Elsevier Procedia Computer Science. 46, pp.1802-1808. **(SCOPUS). DOI:**https://doi.org/10.1016/j.procs.2015.02.137.

- Jagadeesh D. Pujari, Rajesh Yakkundimath, Shamrao Jahagirdar and A.S.Byadgi(2016). "Quantitative detection of soybean rust using image processing techniques". Journal of Crop Protection. 5(1), pp.75-87. **Quartile:Q4 (SCOPUS). DOI: 10.18869/modares.jcp.5.1.75**.

- Jagadeesh D. Pujari, Rajesh Yakkundimath and A.S.Byadgi(2016). "SVM and ANN based classification of plant diseases using feature reduction technique". International Journal of Interactive Multimedia and Artificial Intelligence. 3(7), pp.6-14. **(SCOPUS). DOI:** 10.9781/ijimai.2016.371

- J.D. Pujari, Dashrath.K.Bhadangkar, Rajesh.Yakkundimath(2017). "Identification and Recognition of Facial Expressions Using Image Processing Techniques: A Survey". International Journal of Emerging Trends in Engineering Research. 5(5).

- Rajesh Yakkundimath, Girish Saunshi and Vishwanath Kamatar(2018). "Plant Disease Detection using IoT". International Journal of Engineering Science and Computing. 8(9), pp.902-906.

- Vishwanath Kamatar, Rajesh Yakkundimath and Girish Saunshi(2018). "Behavior of SVM based classification for varying sizes of heap-grain images". International Journal of Computer Sciences and Engineering. 6(12), pp.32-42. **DOI:**10.26438/ijcse/v6i12.3242

- Yakkundimath, R., Saunshi, G. Automatic methods for classification of visual based viral and bacterial disease symptoms in plants. Int. j. inf. tecnol.(2021).pp.1-13.https://doi.org/10.1007/s41870-021- 00701-2. Quartile:Q4, (SCOPUS).

- Yakkundimath, R., Saunshi, G., Anami, B. et al. Classification of Rice Diseases using Convolutional Neural Network Models. J. Inst. Eng. India Ser. B (2022). pp.1-13. https://doi.org/10.1007/s40031-021- 00704-4. Quartile:Q4, (SCOPUS)

- Yakkundimath, R., Jadhav, V., Anami B. Automated Classification of Cervical Cells Using Integrated VGG-16 CNN model. International Journal of Medical Engineering and Informatics. **https://doi.org/**10.1504/IJMEI.2022.10046152. **Quartile:Q4, (SCOPUS)**

- Yakkundimath, R., Jadhav, V., Anami B. Co-occurrence Histogram Based Ensemble of Classifiers for Classification of Cervical Cancer Cells. Journal of Electronic Science and Technology. https://doi.org/10.1016/j.jnlest.2022.100170 . **Quartile:Q3, (SCOPUS)**

- Yakkundimath, R., Saunshi, G. et al. Paddy variety identification from field crop images using deep learning techniques. International Journal of Computer Vision and Robotics. . https://doi.org/10.1504/IJCVR.2022.10047193. **Quartile: Q4, (SCOPUS).**

- Telkar, S., Yakkundimath, R. Vegetable Quality Detection and Price Prediction Using Image Processing and Machine Learning. https://doi.org/10.37897.GRJ.2021.V8I7.22.50024

- Yakkundimath, R., Saunshi, G. et al. A comparative analysis of paddy crop biotic stress classification using pre-trained deep neural network. Artificial Intelligence in Agriculture. https://doi.org/10.1016/j.aiia.2022.09.001. **Quartile: Q1, (SCOPUS).**

- Ramesh M Badiger, Yakkundimath, R, Deep Learning Approaches for Age-based

Gesture Classification in South Indian Sign Language. Engineering, Technology & Applied Science Research. Vol. 14, No. 2, 2024, 13255-13260 **Quartile: Q3, (SCOPUS).**

- Yakkundimath, R., Ramesh M Badiger, Journal of Electrical Systems. Deep Learning Based Classification of Single-Hand South Indian Sign Language Gestures. Vol. 20 No. 1s (2024). **Quartile: Q3, (SCOPUS).**

Conference

- Jagadeesh Pujari, Rajesh Yakkundimath and Basavaraj S. Anami(2011). "Color Based Identification and Classification of Normal and Affected Agriculture/Horticulture Produce". Proc. of International Conference on Communication, Computation, Management and Nanotechnology, 23-25 Sep, Bhalki, India.

- Jagadeesh D. Pujari, Rajesh.Yakkundimath and A.S.Byadgi(2014). "Identification and Classification of Fungal diseases Affected on Agriculture/Horticulture Crops Using Image Processing Techniques". Proc. Of International Conference on Computational Intelligence and Computing Research, IEEE,Coimbatore, India. pp.1-4. **(SCOPUS).** DOI:10.1109/ICCIC.2014.7238283

- Basavaraj S. Anami, Rajesh Yakkundimath, Prashant Bhandari(2011). "A Novel Invisible Watermarking Insertion-Extraction using DWT Water marking Technique", Proc. of ICNICT-2011, Ghaziabad, India.pp.461-463. DOI: https://doi.org/10.26483/ijarcs.v2i6.922

- Guruprasad K and Rajesh Yakkundimath(2017). "A combined approach of biometrics and watermarking for digital image's copyright protection". Proc. of 2nd NCCOCE, Bangalore, India.

- Rajesh Yakkundimath, Jagadeesh D. Pujari and Guruprasad K(2017). "Android Based Detection of Plant Diseases Affecting Leaves". National Conference on, NCCCI 2017

  Gandhigram, Tamilnadu, India, January 27-28, 2017.

- J.D. Pujari, Dashrath.K.Bhadangkar, Rajesh.Yakkundimath(2020). "Comparison of Tuplet of Techniques for Facial Emotion Detection: 4th IEEE International Conference on I-SMAC, SCADIT, Palladam, India on 07-09, Oct-2020.pp.725-730. **(SCOPUS).** **DOI:** 10.1109/I-SMAC49090.2020.9243439.

	• Chini S., Yakkundimath,R. et al. Automated Classification of Wheat Varieties Using Soft Computing Techniques. Fifth International Conference on Cognition and Recognition (ICCR), MIT, Mysore, Mandya. December 30- 31, 2021. **(SCOPUS).** • S. T. R, R. Yakkundimath, L. Thomas and T. Kl, "Detection of Weed plant in Farm and Removing using Unmanned Ground Vehicle," 2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Kirtipur, Nepal, 2023, pp. 1082-1086, doi: 10.1109/I-SMAC58438.2023.10290653. • Yakkundimath, R., Ramesh M Badiger. South Indian Sign languages Recognition and Classification using Deep Learning Networks. IEEE ICRISST 2024 on 15 and 16th March 2024.		
b)	**Patent:** Using Machine Learning to prevent crane operators from incidents with a blind spot camera. ID: 202141005793 A		
1.5.	**Language skills (ability to)**	**Speak:**	**Read / Write**
		Kannada	Read & Write
		Hindi	Read & Write
		English	Read & Write
2.	**Employment Information and Professional Experience till date**		
2.1.	**Employment Information** (Provide information in the following order: Job title, Employer, Dates (from – to), Responsibilities, highlight the work undertaken that best illustrates capability to handle the tasks assigned).		
a)	Job title	Customer Support Engineer	
	Employer	VV Computers Pvt. Ltd., Bangalore	
	Dates (from – to)	2004-2005	
	Responsibilities	Solve any technical issues a customer is having while using their new product or service	
b)	Job title	Lecturer, Dept. of CSE	
	Employer	R.E.C.Hulkoti	
	Dates (from – to)	2006-2007	
	Responsibilities	Preparing and delivering regular lectures for students	
c)	Job title	Lecturer , Dept. of CSE	
	Employer	T.C.E.,Gadag	
	Dates (from – to)	2007-2008	
	Responsibilities	Preparing and delivering regular lectures for students	
d)	Job title	Lecturer , Dept. of CSE	
	Employer	K.L.E.I.T.,Hubli	
	Dates (from – to)	2008- 2012	
	Responsibilities	Preparing and delivering regular lectures for students	
e)	Job title	Assistant Professor , Dept. of CSE	

	Employer	K.L.E.I.T.,Hubli
	Dates (from – to)	2008- 2017
	Responsibilities	Preparing and delivering regular lectures for students, participate in departmental and college activities, attending conferences & workshops, conducting research.
f)	Job title	Associate Professor , Dept. of CSE
	Employer	K.L.E.I.T.,Hubli
	Dates (from – to)	2017- till date
	Responsibilities	Preparing and delivering regular lectures for students, participate in departmental and college activities, attending conferences & workshops, conducting research and supervising students.
g)	Job title	Head, Dept. of CSE
	Employer	K.L.E.I.T.,Hubli
	Dates (from – to)	2024- till date
	Responsibilities	To lead and manage the teaching and learning of Computer Science. Behaviour for Learning policy. departmental self-evaluation.
2.2.	**Public Service & Volunteer Work**	
a)	Active member of VIRAT foundation, Hubballi based registered organisation working on social service activities.	
b)	Consultant for different software projects.	
2.3.	**Other professional achievements such as any awards, special skills, etc.**	
a)	Received Dr.A.P.J.Abdul Kalam National Award for contributions to teaching, research & publications.	
b)	Received "Best senior faculty award" by Novel Research Academy, Pondicherry.	
c)	Student Projects selected by KSCST, Bangalore.	
d)	https://www.adscientificindex.com/scientist/rajesh-yakkundimath/483209(Ranking)	
e)	Received Grants from AICTE	
f)	Dr. Rajesh Yakkundimath - Google Scholar	
g)	**Research Scholars**	

	Sl. No.	**Research Scholar**	**Status**
	1.	Mr. Girish Saunshi	Awarded
	2.	Mr. Ramesh Badiger	Awarded
	3.	Mrs. Varsha S. Jadhav	Pre-Ph.d. Viva-Voce completed
	4.	Mr. Sandeep Telkar	Pre-Ph.d. Viva-Voce completed
	5.	Mr. Shidhar Chini	Registered
	6.	Mrs. Swati Sajjan	Registered
	7.	Mrs. Shobha Hiremath	Registered

3.	**Any other information**	
3.1.	**Strengths**	Dynamic Enthusiasm
4.2		Personal Interest in Students
		Flexibility, Creativity & Openness
4.	**Subjects taught:**	

	Computer Organization, Advanced Computer Architecture, Digital Image Processing, Pattern Recognition, Discrete Mathematical Structures, Operating Systems, System Software, Storage Area Networks, Big Data Analysis, Internet of Things, Multi-core Architecture & Programming, Computer Concepts & C Programming, Programming in C & Data Structures, C Programming for problem solving, Computer Graphics & Visualization, Network Management, Artificial Intelligence & Machine Learning, Big Data & Analytics, Universal Human Values, Pattern Classification	
5.	**Additional responsibilities:**	
	- Worked as member of Board of Examiners - Worked as NBA, project co-ordinator, lesson plan co-ordinator, Time Table Co-ordinator, Seminar Co-ordinator - Worked as staff co-ordinator and staff secretary - Worked as department association co-ordinator - Worked as co-ordinator of CSI - Worked as co-ordinator of Microsoft IT Academy - Worked as ADVITIYA National Fest Co-ordinator - Actively involved in projects in the area of Image Processing, Machine Learning etc. - Actively involved in National, International, Workshops, FDP programs, Technical Fest conducted at department and college level. - Reviewer of various National/International/Conference Journals. - Chaired session at various National/International/Conferences. - Doctoral committee member for research scholars, registered under VTU, Belagavi. - Guided more than 25 UG projects and 5 PG projects - Awarded 2 and Guiding 5 Ph.D. research scholars, registered under VTU, Belagavi. - Recourse person to various Institutes. - PHD Thesis Examiner	
6.	**General information**	
3.2.	Name	Rajesh Yakkundimath
3.3.	Gender	Male
3.4.	Nationality	Indian
3.5.	Category	General
3.6.	Date of birth	01/05/1982
3.7.	Institute address	K.L.E.Institute of Technology, Department of Computer Science & Engineering, KLET, Gokul, Hubballi-30
3.8.	Phone / mobile number	9481126276(M)
3.9.	Email	rajeshymath@gmail.com, rajesh.y@kleit.ac.in

01/06/2023	Dr.Rajesh Yakkundimath	
Date	Full name	Signature