



LINGARAJ APPA ENGINEERING COLLEGE , BIDAR

Approved by AICTE, Recognized by Govt. of Karnataka

VTUAffiliated

FACULTY PROFILE

1. **Name in Full :** Dr. Vinita Patil



2. **Email ID:** [Vinita.pratapur@gmail.com/](mailto:Vinita.pratapur@gmail.com) vinita278@yahoo.co.in

3. **Date of Birth :** 27/08/1990

4. **Address for communication:** Principal, Lingaraj Appa Engineering College, Bidar.
Karnataka- 585403

5. EDUCATIONAL QUALIFICATIONS:

Sl.NO	Degree	University/Institution	Year	Specialization
1	PDF	Srinivas University, Mangalore	2022	Image processing
1	Ph.D	Visvesvaraya Technological University, Belgavi	2020	Image processing
2	M.Tech	Visvesvaraya Technological University, Belgavi	2014	Digital Electronics
3	B.E	Visvesvaraya Technological University, Belgavi	2012	Electronics and Communication Engineering
4	PUC	Sharabasaveshwar Residential composite PU College	2008	-
5	SSLC	Sharanbasaveshwar Residential Public School	2006	-

6. DETAILS OF PREVIOUS EMPLOYMENT:

SI.NO	Name of the Institution	Period		Designation
		From	To	
1	Godutai Engineering College for Women, Kalaburgi	01/09/2012	30/08/2020	Lecturer
2	Godutai Engineering College for Women, Kalaburgi	01/10/2014	30/09/2020	Asst. Prof
3	Faculty of Engineering and Technology(Exclusively for women), Kalaburgi	01/09/2020	31/01/2021	Assoc.Professor
4	Lingaraj Appa Engineering College, Bidar	01/02/2021	Till Date	Professor & Principal

7. **Date of service in this Institution:** 01/02/2021

8. **Total experience in years :**14 years

9. **Subjects of Interest:** Basic Electronics
Image Processing
Digital Electronics
Digital Signal Processing
Microprocessor

10. PUBLICATIONS IN NATIONAL AND INTERNATIONAL JOURNALS & CONFERENCES:**JOURNALS PUBLICATIONS:**

Title	Journal, Volume, issue & Pages	Cited in		
		SCI/SCI E	Scopus	Others
1.User Identification Using HTK	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 6, June – 2014 doi: https://zenodo.org/badge/DOI/10.5281/zenodo.7890764			Yes
2.Person Identification Based On Handwriting	International Journal of Computer Sciences and Engineering, Vol.-7, Issue-7, July 2019 E-ISSN:2347-2693, doi: https://doi.org/10.26438/ijcse/v7i7.186189			Yes
3. User identification using HMM and ANN	International Journal of Computer Sciences and Engineering, ISSN: 2347-2693, volume 6 issue 11, Nov 2018 , doi: https://zenodo.org/badge/DOI/10.5281/zenodo.7890750			Yes
4. Review on Handwriting Recognition Techniques	Journal of Applied Science and Computations ISSN NO: 1076-5131, volume V, issue XII, December20,			Yes

	doi:https://zenodo.org/badge/DOI/10.5281/zenodo.7890740			
5. Design of high efficient and High recognition rate for real time Handwritten Recognition using HMM and ANN classification	International Journal of Control Theory and Applications, vol-10, Nov 24, 2017, ISSN: 0974-5572, doi:https://zenodo.org/badge/DOI/10.5281/zenodo.7890708 .		Yes	
6. Writer Identification with Hybrid model using Hybrid HMM and ANN	International Journal of Recent Technology and Engineering, ISSN: 2277-3878, Volume-8 Issue-3, September 2019, doi:https://doi.org/10.35940/ijrte.C4435.098319		Yes	
7. Feature extraction with MLP and CNN in writer identification	Test Engineering and Management”, ISSN 0193-4120, page No: 16813-16821, Mar- April 2020, DOI:https://zenodo.org/badge/DOI/10.5281/zenodo.7890720		Yes	
8. A Mixture of MLPNN/HMM to Demonstrate the Procedure for Online Hindi Writing Recognition	International Journal of Case Studies in Business, IT, and Education (IJCSBE), ISSN: 2581-6942, Vol. 6, No. 1, May 2022, Srinivas Publication, DOI:https://zenodo.org/record/6577815			Yes
9. Hybrid Techniques for the Segmentation Infection with Covid-19 in the Lungs Using CT Images	Shodhasamhita: Journal of Fundamental & Comparative Research Vol. VIII, No. 1(XXXIV):2022 ISSN :2277-7067			Yes
10. Modeling of Hybrid CNN Framework for Handwritten Character and Digit Recognition System	Advanced Engineering Science ISSN: 2096-3246 Volume 54, Issue 02, April, 2022		Yes	
11. A Noise-Aware Convolutional Neural Network for Noise Reduction and Resolution Enhancement in Chest X-Ray Images”, .	Engineering, Technology & Applied Science Research Volume: 16 Issue: 2 Pages: 32794-32799 April 2026 DOI:https://doi.org/10.48084/etasr.15045		Yes	
12. A Hybrid Deep Learning Feature Extraction and Transfer Learning-Based Approach for Respiratory Disease Diagnosis	Journal of Intelligent Decision Making and Information Science, Volume 3(1s), (2026) 770-787 DOI: https://doi.org/10.59543/jidmis.v3.468		Yes	

CONFERENCES PUBLICATIONS:

Paper Title	Conference Title, Date(s) and Organizer	National/ International	Proceedings Indexed
1.Mathematical Document Identification based On Equation Symbol Recognition Using Combined ANN and KNN	National conference on recent trends in information and communication technology (NCRTICT-2016), https://zenodo.org/badge/DOI/10.5281/zeno	National	Google Scholar

Classifiers	do.7890726.		
2. Writer Identification using hidden Markov model tool kit	4 th International conference on signal processing and communication on Feb 2019.	International	Google Scholar
3. Comparative study of Various Methods of user identification based on Handwriting	NCCDS-2019 Conference, GSSIETW, Mysuru.	National	Google Scholar
4. Design of Protocol for Handwriting Recognition Using FPGA	Proceedings of Second International Conference on Smart Energy and Communication pp 505–518 conference date,published 05 January 2021, https://doi.org/10.1007/978-981-15-6707-0_49 , ISBN:978-981-15-6706-	International	Google Scholar
5. Handwriting Recognition using Support Vector Machine and Artificial Neural Network	International conference on Recent Trends in Computer Electronics Engineering, Hyderabad on 24 th August 2020.	International	Google Scholar
6. Detection of Plant Leave Disease Using Hybrid Techniques	National conference on recent trends in engineering and management studies (NCRTEMS - 2022) on 12 th &13 th April at LAEC, Bidar.	National	Google Scholar
7. Hybrid Techniques for the Segmentation Infection with Covid-19 in the Lungs Using CT Images	National conference on recent trends in engineering and management studies (NCRTEMS - 2022) on 12 th &13 th April at LAEC, Bidar.	National	Google Scholar
8. Parametric Anaylsis for Food Quality Evaluation using Artificial Intelligence	National conference on recent trends in engineering and management studies (NCRTEMS - 2022) on 12 th &13 th april at LAEC, Bidar.	National	Google Scholar
9. Enhancing Respiratory Disease Diagnosis through Deep Learning: A CNN-Based Approach for Image Classification	1 st IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS) organized by Sharnbasva university, Kalaburagi on 24-25 November 2023 (Also received best paper award).doi: 10.1109/ICIICS59993.2023.10421028	International	Scopus
10. Analysis of Classical and Machine Learning Techniques in Cognitive Radio Network	2023 International Conference on Integrated Intelligence and Communication Systems (ICIICS), Kalaburagi, India, 2023, pp. 1-5, DOI: 10.1109/ICIICS59993.2023.10421255.	International	Scopus
11. Development of a Persistent, Accessible and Non-invasive Glucose Monitoring Device	December 2023, IEEE 15th International Conference on Computational Intelligence and Communication Networks (ICICN), DOI:10.1109/CICN59264.2023.10402198.	International	Scopus
12. Handwriting Analysis for user Authentication using human memory Integrated cosine similarity network	ISTE sponsored International conference on Multi disciplinary Research(ICMR 2025) organized by faculty of engineering and technology (Exclusively for women) in	International	Google Scholar

	association with Lingaraja Appa engineering college , bidar on 29-30 july 2025, page 12.		
13. The performance characterization relationship between physiology with physical models in Engineering & Bio medical streams	ISTE sponsored International conference on Multi disciplinary Research(ICMR 2025) organized by faculty of engineering and technology (Exclusively for women) in association with Lingaraja Appa engineering college , bidar on 29-30 july 2025.	International	Google Scholar
14. Dual-Channel Contrastive Convolutional Network for Respiratory Disease Prediction and Classification	2026 <i>IEEE International Conference for Convergence in Computing Technology (I3CTCON)</i> , Lonavala, India, 2026, pp. 1-8, DOI: 10.1109/I3CTCON68242.2026.11507339.	International	Scopus

11. PATENTS

Patent Title	Appliction Number & Publication Date	Published/ Granted
1. A Novel VLSI based Architecture for stroke detection using optimized resource allocation.	202141047825 & 03/12/2021	Published
2. Method of Face Recognition using combined Hidden Markov Model (HMM) and Singular value Decomposition (SVD).	202041007574 & 28/02/2020	Published
3. System of Fuzzy Controller for Real-Time Adjustment of Visual Sensor	201931033309 & 13/09/2019	Published

12. SEMINARS CONDUCTED

1. Presented one day technical seminar on “ **Applications of AI in biometrics**” on 4th february 2025 under IEEE CAS, in association with IEEEWIE, IEEE student branch at ECE department, Sharnbasva university (Exclusively for women), Kalaburagi
2. Presented talk on “**Career Guidance for Engineering Students**” during the one day personality development program held on March 6, 2025 at Guru Nanak Dev Engineering college, Bidar.

13. WORKSHOP/SEMINAR/CONFERENCES ORGANIZED:

1. Artificial Intelligence and Machine learning, Department of E&CE, Godutai Engineering College for women, Kalaburgi.
2. Organized ISTE and IETE sponsored National conference on “Recent Trends in Engineering and Management studies” in association with Sharnbasva University, Kalaburgi in April 202.

3. Organized Job fair I on 6th Oct 2021 and Job fair II in 2022 with support of District Administration Bidar.
4. Organized a Three days FDP on Universal Human Values from 6th to 8th November 2023 at LAEC, Bidar.
5. Organized two days workshop on “Emerging Trends on Cloud Computing” on 9th and 10th Feb 2024 at LAEC, Bidar.
6. Organized two days “IEEE International conference on Intelligent systems and computational Networks (ICISCN 2025)” on January 24th and 25th 2025.
7. Organized two days workshop on “AWS cloud computing” on 26th and 27th April 2025 at LAEC, Bidar.

14. TRAINING PROGRAMMES/WORKSHOPS/SEMINARS/STTPS/SYMPOSIUMS/WEBINARS ATTENDED.

SI.NO	TOPIC	PERIOD		ORGANIZER
		FROM	TO	
1	Four days VTU_VGST faculty development program on “Recent Trends in VLSI Design And Embedded systems”.	05/05/2014	08/05/2014	AIET, Kalaburagi
2	One week state level faculty development program on “Emerging Trends in teaching, Learning and Research”.	04/01/2016	09/01/2016	GECW&AIET, Kalaburgi.
3	Three days’ workshop on “Research Methodology And Technology Documentation using Latex”.	03/05/2018	05/05/2018	SUK, Kalaburagi.
4	One week faculty Enrichment Programme on “Discrete Mathematical Structures”.	27/07/2018	31/07/2018	VTU, Belagavi.
5	Three days workshop on “Embedded IOT Application Design and Development”	20/05/2024	22/05/2024	Lingarajappa Engineering college, Bidar
6	Two days National conference on “Advances in Electronics communication and Computing”(NCAECC-2023)	13/05/2024	14/05/2024	Guru Nanak Dev Engineering College, Bidar.
7	One week faculty development program on “Full stack web development “	22/02/2024	28/02/2024	Guru Nanak Dev Engineering College, Bidar.
8	Two days workshop on “Emerging Trends on Cloud Computing-AWS”	9/02/2024	10/02/2024	Lingarajappa Engineering college, Bidar

15. AWARDS

1. Received “ **Kittur Rani Chennamma**” award by “Veershiva Lingayat Swabhimani Balga”, Kalaburagi
2. Received “**IETE-SMT TRIVENI DEVI GUPTA MEMORIAL AWARD-2025**” by Institute of Electronics and Telecommunication.

16. ACHIEVEMENTS

1. The project entitled “**AI -Driven Super Resolution Enhancement for Medical Imaging: Improving Diagnostic Accuracy and Patient Outcomes**” has been selected for funding Rs. 30 lakhs by VGST(Vision group of science and technology) under KFIST-L2 (Karnataka Fund for Infrastructure Strengthening in Science and Technology Level 2-K-FIST-L2)

17. Details of Memberships In Professional Societies:

Sl.No	Name of the Body	Member ID
1	IEEE Faculty Member	93177187
2	IETE Member	M-502096
3	ISTE Life Member	LM 134590
4	SCOPUS	58886744000 & 57211398946
5	ORCID	0000-0003-3035-6721
6	Google Scholar	crvlpOoAAAAJ&hl=en&oi=ao

19. Other membership

1. VTU LIC Member in the academic year 2021
2. Vice chairperson of IETE, Kalaburagi Center, Kalaburagi for academic year 2023-2024
3. Governing council member of IETE, Kalaburagi Center, Kalaburagi for academic year 2024-2025
4. Governing council member of sharanabasaveshwar Vidya Vardhk sangha for academic year 2024-2025
5. Member of Women Empowerment Cell(WEC) , Sharnbasva university (Exclusively for women), Kalaburagi for academic year 2024-2025.

18. Ph.D Guidance

1. Co- guide for Lakshmi Patil at Sharnbasva university.
2. Co- guide for Soumya Gajre at Sharnbasva university.
3. Guide for Rekha at VTU.
4. Guide for Rakesh T at VTU.

