Malnad College of Engineering, Hassan

(An Autonomous Institute, Affiliated to V.T.U, Belagavi

Faculty Biodata

GENERAL INFORMATION AND ACADEMIC BACKGROUND

PART-A

1.	Name(inBlockLetters)	**Dr. ARJUN B C**
2.	Qualification	**B.E., M.Tech., PhD**
3.	Date of joining the service at MCE	**19/05/2025**
4.	Department	**CSE (Artificial Intelligence and Machine learning)**
5.	CurrentDesignation &Experience in MCE	**Professor & Head , 0.8 yrs.**
6.	**Teaching Experience:** P.G. (in Years) : U.G. (in Years) :	**11** **14.5**
	Research Experience (in Years)	
7.	a) **Total Number of years**	10
	b) **Years spent in M. Phil. / Ph.D.**	6
	c) **Years of Guiding Ph.D. / M. Phil.**	4
	d) **Total No. of papers Published in**	35
	i. International Journals	22
	ii. National Journals	2
	iii. Conference Proceedings	11
	e) **Total No. of Conferences/Seminar/Workshop Attended**	20
	i. International	5
	ii. National	5
	iii. State Level	10
8.	**Awards /Prizes/ Honor's / Recognitions**	1.Secured Gold Medal in Master of Technology 2.Second price in National level project expo, Adichunchanagiri University, Project title "Augmented reality Application" Ay 2024-25.
9.	**Fields of Specialization under the Subject / Discipline**	Artificial Intelligence, Machine Learning, Prompt Engineering, AI workflow

			Automation, Image Processing
10.	**Orientation/Refresher Course/Summer School / Winter School/Workshops attended:**		Capacity Building Programme on Cybersecurity Certification , IIT Madras, under the aegis of Ministry of Education, Govt of India, through Malaviya Mission Teacher Training Programme.

.**PART-B**

1. **List of Publications:**

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	Explainable AI hybrid CNN-transformer models for enhanced COVID-19 detection in chest X-rays	Network Modeling Analysis in Health Informatics and Bioinformatics , Vol 14, 100 , 2025	2192-6662
2.	A Comprehensive Survey of AI enabled Techniques for Automated Animal Detection and Classification in Ecological and Real-Time Applications	International Journal of Innovative Research in Technology Volume 12 Issue 5, 2025	2349-6002
3.	Automated Kannada Hand Gesture Using Convolution Neural Network	International Journal of Scientific Research in Engineering and Management (IJSREM), Volume: 09 Issue: 05 , 2025	2582-3930
4.	REVOLUTIONIZING HEALTHCARE THROUGH AUGMENTED REALITY INTEGRATION IN MEDICAL TRAINING	International Scientific Journal of Engineering and Management, Volume: 03 Issue: 04, 2024	2583-6129
5.	IMMERSIVE LEARNING: VIRTUAL REALITY'S IMPACT ON MEDICAL CURRICULUM	International Scientific Journal of Engineering and Management, Volume: 03 Issue: 05, 2024	2583-6129
6.	ENHANCING MILITARY TRAINING THROUGH VR APPLICATIONS	International Scientific Journal of Engineering and Management, Volume: 03 Issue: 05, 2024	2583-6129
7.	Beyond Books: Exploring AR in Education with Unity3D	International Scientific Journal of Engineering and Management, Volume: 03 Issue: 05, 2024	2583-6129
8.	Chronic Disease Prediction after Covid-19 using Machine Learning	GRENZE International Journal of Engineering and Technology, Volume: 09 Issue: 02, 2023	2395-5295
9.	Securing the Data using Steganography Technique in Images	GRENZE International Journal of Engineering and Technology, Volume: 09 Issue: 02, 2023	2395-5295
10	A Survey on Deep Learning Methods for Speech Emotion Recognition	GRENZE International Journal of Engineering and Technology, Volume: 09 Issue: 02, 2023	2395-5295

11	Real-Time Driver Tiredness Detection using CNN, YOLO, and the Camshift Algorithm	GRENZE International Journal of Engineering and Technology, Volume: 09 Issue: 02, 2023	2395-5295
12	A Study of Machine Learning Effectiveness in Detecting Credit Card Fraud: KNIME	International Journal for Research in Applied Science and Engineering Technology, Volume 11, Issue II, 2023	2321-9653
13	Performance Analysis of Regression Algorithms for Used Car Price Prediction: KNIME Analytics Platform	International Journal for Research in Applied Science and Engineering Technology, Volume 11, Issue II, 2023	2321-9653
14	Performance Analysis by Using the Knime Analytical Platform to Forecast Heart Failure Using Several Machine Learning Methods	International Journal for Research in Applied Science and Engineering Technology, Volume 11, Issue II, 2023	2321-9653
15	Image Fusion by Discrete Wavelet Transform for Multimodal Biometric Recognition	IAES International Journal of Artificial Intelligence, Vol. 11, No. 1, 2022	2252-8938
16	Multimodal biometrics of fingerprint and signature recognition using multi-level feature fusion and deep learning techniques	Indonesian Journal of Electrical Engineering and Computer Science, 22(1), 2021	2502-4752
17	Multimodal Biometric recognition system using Face and Finger Vein Biometric traits with Feature and Decision level fusion Techniques	International Journal of Computer Theory and Engineering, Vol.13(4), 2021	1793-8201
18	Multimodal biometric recognition: fusion of modified adaptive bilinear interpolation data samples of face and signature using local binary pattern features	International Journal of Engineering and Advanced Technology (IJEAT), Vol. 9, no. 3, 2020	2249-8958
19	Feature level fusion of seven neighbor bilinear interpolation data sets of finger vein and iris for multimodal biometric recognition	International Journal of Advanced Trends in Computer Science and Engineering, vol. 9, no.2, 2020	2278 - 3091

2. **Responsibilities in the Department and Institute / University:** (DAC,DPC, BOS, BOE etc., Institutional Governance responsibilities like, Dean, Chief warden, Warden, HOD's, School/Centre Chairperson, IQAC Coordinator etc.)

Sl. No	Responsibilities
1.	**Head of the Department**
2.	**DAC Chairman**
3.	**BOS Chairman**
4.	**BOE**
5.	**PMKK Coordinator**

3. **Details of Teaching Related Activities**

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title
1.	2025-2026 (Odd sem)	B.E	Introduction to Artificial Intelligence
2.	2025-2026 (Odd sem)	B.E	Prompt Engineering & AI Automation
3.	2024-2025 (Even sem)	B.E	Database Management Systems

Professional Development Activities		
	Membership in profession related committees at state and national level	1
	a) At International	5
	b) At national level:	-
	c) At state :	
	Participation in subject associations, conferences, seminars without paper presentation	3
	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	1
	Membership/participation in State/Central Bodies/Committees on Education, Research and National Development	1
	Publication of articles in newspapers, magazines, or other publications (not covered in category 3); radio talks; television programmes	2
	Invited Expert Talks	2

PART-C

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

1. **Published Papers in Journals**

Sl. No.	Title	Journal with Vol. Year & Page No.	ISSN / ISBN No.	Whether peer reviewed. Impact factor, if any	No. of Co-authors	Whether you are the main author or Guide / mentor
1	Explainable AI hybrid CNN-transformer models for enhanced COVID-19 detection in chest X-rays	Network Modeling Analysis in Health Informatics and Bioinformatics , Vol 14, 100 , 2025	2192-6662	SJR 0.40	4	**Main author**
2	A Comprehensive Survey of AI enabled Techniques for Automated Animal Detection and Classification in Ecological and Real-Time Applications	International Journal of Innovative Research in Technology Volume 12 Issue 5, 2025	2349-6002	SJIF 8.0	4	**Guide**

3	Automated Kannada Hand Gesture Using Convolution Neural Network	International Journal of Scientific Research in Engineering and Management (IJSREM), Volume: 09 Issue: 05 , 2025	2582-3930	SJIF 8.5	1	**Main author**
4	REVOLUTIONIZING HEALTHCARE THROUGH AUGMENTED REALITY INTEGRATION IN MEDICAL TRAINING	International Scientific Journal of Engineering and Management, Volume: 03 Issue: 04, 2024	2583-6129	SJIF 7.839	1	**Main author**
5	IMMERSIVE LEARNING: VIRTUAL REALITY'S IMPACT ON MEDICAL CURRICULUM	International Scientific Journal of Engineering and Management, Volume: 03 Issue: 05, 2024	2583-6129	SJIF 7.839	1	**Main author**
6	ENHANCING MILITARY TRAINING THROUGH VR APPLICATIONS	International Scientific Journal of Engineering and Management, Volume: 03 Issue: 05, 2024	2583-6129	SJIF 7.839	1	**Main author**
7	Beyond Books: Exploring AR in Education with Unity3D	International Scientific Journal of Engineering and Management, Volume: 03 Issue: 05, 2024	2583-6129	SJIF 7.839	1	**Main author**
8	Chronic Disease Prediction after Covid-19 using Machine Learning	GRENZE International Journal of Engineering and Technology, Volume: 09 Issue: 02, 2023	2395-5295	SJIF 6.0	4	**Mentor**
9	Securing the Data using Steganography Technique in Images	GRENZE International Journal of Engineering and Technology, Volume: 09 Issue: 02, 2023	2395-5295	SJIF 6.0	3	**Mentor**
10	A Survey on Deep Learning Methods for Speech Emotion Recognition	GRENZE International Journal of Engineering and Technology, Volume: 09 Issue: 02, 2023	2395-5295	SJIF 6.0	3	**Mentor**
11	Real-Time Driver	GRENZE International	2395-5295	SJIF 6.0	4	**Main**

18	Tiredness Detection using CNN, YOLO, and the Camshift Algorithm	Journal of Engineering and Technology, Volume: 09 Issue: 02, 2023				**author**
12	A Study of Machine Learning Effectiveness in Detecting Credit Card Fraud: KNIME	International Journal for Research in Applied Science and Engineering Technology, Volume 11, Issue II, 2023	2321-9653	SJIF 7.5	1	**Main author**
13	Performance Analysis of Regression Algorithms for Used Car Price Prediction: KNIME Analytics Platform	International Journal for Research in Applied Science and Engineering Technology, Volume 11, Issue II, 2023	2321-9653	SJIF 7.5	1	**Main author**
14	Performance Analysis by Using the Knime Analytical Platform to Forecast Heart Failure Using Several Machine Learning Methods	International Journal for Research in Applied Science and Engineering Technology, Volume 11, Issue II, 2023	2321-9653	SJIF 7.5	1	**Main author**
15	Image Fusion by Discrete Wavelet Transform for Multimodal Biometric Recognition	IAES International Journal of Artificial Intelligence, Vol. 11, No. 1, 2022	2252-8938	CiteScore of 3.9 SJR: 0.365	1	**Main author**
16	Multimodal biometrics of fingerprint and signature recognition using multi-level feature fusion and deep learning techniques	Indonesian Journal of Electrical Engineering and Computer Science, 22(1), 2021	2502-4752	SJR: 0.2	1	**Main author**
17	Multimodal Biometric recognition system using Face and Finger Vein Biometric traits with Feature and Decision level fusion Techniques	International Journal of Computer Theory and Engineering, Vol.13(4), 2021	1793-8201	SJR: 0.14	1	**Main author**
18	Multimodal biometric recognition: fusion of modified adaptive bilinear interpolation	International Journal of Engineering and Advanced Technology (IJEAT),	2249-8958	SJR: 0.14	1	**Main author**

		data samples of face and signature using local binary pattern features	Vol. 9, no. 3, 2020				
	19	Feature level fusion of seven neighbor bilinear interpolation data sets of finger vein and iris for multimodal biometric recognition	International Journal of Advanced Trends in Computer Science and Engineering, vol. 9, no.2, 2020	2278 - 3091	SJR: 0.14	1	**Main author**

2. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programmes IS IT CONDUCTED OR ATTENDED

Sl. No.	Name of Course/Summer/Winter School	Duration	Organized By
1.	**Capacity Building Programme on Cybersecurity**	8 days	IIT Madras
2.	**Cloud Infrastructure (AWS)**	5 days	AICTE
3.	**Deep Learning and its Applications**	5 days	ISTE and IEEE
4.	**Natural Language Processing**	5 days	Presidency University, Bangalore
5.	**A Real time practical approach of deep learning with keras using colab**	3 days	Computer Society of India (CSI), MVIT

3. Papers presented in Conferences, Seminars, Workshops, Symposia

Sl. No.	Title	Title of Conference/Seminar etc.	Dates of the Event	Organized by	Whether International/National/State/Regional/Univ Level
1	A Comprehensive Review of VertexML: A Model Training Platform	International Conference for Emerging Technologies for Multidisciplinary Innovation and sustainability ETMIS 2025	4th and 5th Dec 2025	Coal City University, Enugu, Nigeria	**International**
2	Artificial Intelligence in	iCREATE 2025: International	27th, 28th	BITM, Karnataka	**International**

	Psychiatry: ML and DL Models for Schizophrenia (SCZ) Detection Using EEG Signals	Conference on Research, Engineering, and Advanced Technologies in Computing & Management	Dec 2025	& Global conference hub, Coimbatore	
3	Enhancing Automotive Safety through Advanced Human Action Recognition Techniques	The 6th International Symposium on Advanced Technologies and Applications in the Internet of Things (ATAIT 2024)	August-19-22, 2024	Kusatsu, Japan	**International**
4	Chronic Disease Prediction after Covid-19 using Machine Learning	International Conference on Advances in Computing, Control, and Telecommunication Technologies ACT 2023	June 15th and 16th 2023	Rajeev Institute of Technology and IDES Press, Grenze Scientific Scoiety	**International**
5	Securing the Data using Steganography Technique in Images	International Conference on Advances in Computing, Control, and Telecommunication Technologies ACT 2023	June 15th and 16th 2023	Rajeev Institute of Technology and IDES Press, Grenze Scientific Scoiety	**International**
6	A Survey on Deep Learning Methods for Speech Emotion Recognition	International Conference on Advances in Computing, Control, and Telecommunication Technologies ACT 2023	June 15th and 16th 2023	Rajeev Institute of Technology and IDES Press, Grenze Scientific Scoiety	**International**
7	Real-Time Driver Tiredness Detection using CNN, YOLO, and the Camshift Algorithm	International Conference on Advances in Computing, Control, and Telecommunication Technologies ACT 2023	June 15th and 16th 2023	Rajeev Institute of Technology and IDES Press, Grenze Scientific Scoiety	**International**

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