CURRICULUM VITAE

Shilpa Kaman
Assistant Professor
Dept. of CSE (Data Science)
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Ashram road
Vijayapur- 586 103

Career Objective

To strive for academic excellence and impart quality education with emphasis on Computer Science & Engineering and to gain exceptional career move ahead through long efforts and performance regularity.

Academics

Qualification	Institute	Board/University	Year	Percentage
Ph. D Pursuing	K.S.A.W.U Vijayapura, Karnataka.	Karnataka State Akkamahadevi Women's University, Vijayapura.	--	85.43% (Course work)
M. Phil	K.S.A.W.U Vijayapura, Karnataka.	Karnataka State Akkamahadevi Women's University, Vijayapura.	2021	81.4% (Course work)
M. Tech CSE	B.M.S. College of Engineering, Bengaluru, Karnataka.	Visvesvaraya Technological University, Belagavi.	2012	84.7 %
B.E ISE	B.L.D.E.A's Dr. P.G. Halakatti College of Engineering and Technology, Vijayapura, Karnataka.	Visvesvaraya Technological University, Belagavi.	2009	77.11 %
PUC 10+2	P.D.J. PU College, Vijayapur, Karnataka.	Karnataka State Board.	2005	68.16 %
SSLC 10th	B.D.E 's Girls High School, Vijayapura.	Karnataka State Board.	2003	89.12 %

Experience

Around 9+ years of experience that includes 5 years of teaching and 4+ years of teaching and research in Computer science academia.

Name of the Institute/Industry	Designation	From	To	Duration
B.L.D.E.A's Dr. P.G. Halakatti College of Engineering and Technology, Vijayapura, Karnataka.	Assistant Professor	September 2024	Till date	
KSAWU Vijayapura	Research Scholar (Pursuing Full-time PhD)	23/09/2021	Till date	3+ years
KSAWU Vijayapura	Research Scholar (M.Phil)	17/02/2020	16/07/2021	1 year
The Oxford College of Engineering, Bengaluru	Assistant Professor	13/01/2013	17/07/2017	5 years

Area of Research Interests

Digital Image Processing, Remote Sensing, Artificial Intelligence, Deep Learning, Machine Learning, Network Security.

PhD Title: "Deepfake Video Analysis and Detection using Artificial Intelligence".

M.Phil Title: "Land Use Land Cover Analysis of Sentinel-2A and Landsat-5 Images using NDVI and Supervised Classification Techniques".

List of Publications

Conferences

Sl. No.	Title of the conference	Title of Presentation	Name of Organizing Institution	Level International/ National
1	IEEE INNOVA 2024	"Optimizing Pretrained Model with Squeeze-and-Excitation Blocks for Improved Image Forgery Detection"	BLDEA's V. P. Dr. P. G. Halakatti College of Engineering and Technology (BLDEACET), Vijayapura	International
2	IEEE CONNECT 2024	"Transfer Learning Strategies for Detecting Passive and GAN-Generated Image	IISC Bangalore	International

		Forgeries with Pretrained Neural Networks"		
3	IEEE International Carnahan Conference on Security Technology (ICCST-2023)	"Transform Domain Techniques combined with LBP for Tampered Image Detection using Machine Learning"	Defense Institute of Technology (DIAT), Pune, Maharashtra, India	International **(Best Paper)**
4	Second International Conference on Data Analytics & Learning 2022 (Dal'22)	"Efficient Wavelet based Denoising Technique Combined with features of Cycle spinning and BM3D for grayscale and color Images"	Alva's Institute of Engineering &Technology, Moodabidri & University of Mysore	International
5	International Conference on Emerging Technologies in Science and Engineering (ICETSE-2023)	"Spliced Image Forgery detection using Adaptive Over Segmentation combined with AKAZE, ORB and SIFT feature descriptors"	Amity University, West Bengal, Kolkata, India	International **(Best Paper)**
6	International conference on Innovations in computational and physical science for sustainable development [ICPSSD-2022]	"Comparative Analysis of Image Denoising Techniques in Spatial Domain for Different Noise Types"	Vijayanagar Sri Krishnadevaraya University, Bellary	International
7	International Conference on Artificial Intelligence and Soft Computing (ICAISC-2021)	"Remote Sensing of Satellite Images Using Digital Image Processing Techniques A Survey"	KSAWU Vijayapur	International

Journals

Sl. No.	Paper Title	Journal	Volume	Year
1	"Land Use Land Cover Study of Sentinel-2A and Landsat-5 Images Using NDVI and Supervised Classification Techniques"	ICTACT- Journal on Image and Video Processing **(UGC Group I)**	ISSN: 0976-9102, Volume 12	2021

2	"Remote Sensing of Satellite Images Using Digital Image Processing Techniques: A Survey"	International Research Journal ofModernization in Engineering Technology and Science	e-ISSN: 2582-5208, Volume 03	**2021**
3	"Analysis of Different Filter Techniques for Image Denoising"	International Journal of Computer Applications	ISSN: 0975-8887, Volume184	**2023**
4	"Efficient Wavelet based Denoising Technique Combined with features of Cyclespinning and BM3D for grayscale andcolor Images"	Springer publications in Lecture Notes in Networks and Systems series (LNNS)	ISBN: 978-981-99-6345-4, Volume 779	**2023**
5	"Transform Domain Techniques combined with LBP for Tampered Image Detection using Machine Learning"	IEEE Xplore	E ISSN:2153-0742 ISSN: 1071-6572	**2023**
6	"Transfer Learning Strategies for Detecting Passive and GAN-Generated Image Forgeries with Pretrained Neural Networks"	IEEE Xplore	E ISSN: 2766-2101 ISSN: 2334-0940	**2024**
7	"Optimizing Pretrained Model with Squeeze-and-Excitation Blocks for Improved Image Forgery Detection"	IEEE Xplore	E ISBN:979-8-3315-0513-4 ISBN:979-8-3315-0514-1	**2024**
8	"Impact of Edge Detection Algorithms on Different Types of Images using PSNR and MSE"	LC INTERNATIONAL JOURNAL OF STEM	E-ISSN: 2708-7123, Volume-03	**2022**
9	"Spliced Image Forgery detection using Adaptive Over Segmentation combinedwith AKAZE, ORB andSIFT feature descriptors"	Journal of Transactions in Systems Engineering	ISSN: 2806-2973 Volume 1, Issue 3	**2023**
10	"Enhancing Face Recognition through Dimensionality Reduction Techniques and Diverse Classifiers"	LC INTERNATIONAL JOURNAL OF STEM	E-ISSN: 2708-7123, Volume 05, Issue 01	**2024**

11	"Deepfake Detection Using Statistical Features and Machine Learning Models"	NOVYI MIR Research Journal (UGC Group II)	ISSN NO: 0130-7673	2024
12	"Remote User Authentication Using a Voice Authentication System"	Information Security Journal: AGlobal Perspective	1939-3555 print / 1939-3547	2013

Dataset Published
- "DeepMultiFace Forgery Dataset (DMFFD): A Comprehensive Dataset for Multifaceted Forgery Dataset" Mendeley Data, V1, doi: 10.17632/y38gxsggc8.1
- "SDFVD: Small-scale Deepfake Forgery Video Dataset", Mendeley Data, V1, doi: 10.17632/bcmkfgct2s.1
- "SDFVD2.0: Extension of Small Scale Deep Fake Video Dataset", Mendeley Data, V1, doi: 10.17632/zzb7jyy8w8.1

Patent
- Indian Patent on "Machine Learning-Powered System for Unmasking Fabricated Faces," Application No.202441020271 A March 29, 2024.

Subjects taught and Key Responsibilities Handled

Subject	UG/PG	Number of times this subject has been taught
Data mining	PG	1
Advanced Operating Systems	PG	1
Computer concepts and C Programming (CCP)	UG	2
Data structures with C	UG	2
Data Structures and Applications,	UG	1
Design Analysis & Algorithms (DAA)	UG	4
Operating Systems	UG	2
UNIX System Programming (USP)	UG	2
Microprocessors	UG	1
System Modelling and Simulation (SMS)	UG	1
Discrete Mathematical Structures (DMS)	UG	2
Digital Logic	UG	2
Digital design and computer organization (DDCO)	UG	1

Microcontroller (MC)	UG	1
• **Worked for NBA and NAAC Accreditation.**		
• **Department library In charge.**		
• **Worked as Newsletter coordinator.**		
• **Cultural coordinator.**		
• **Handled responsibilities of Class teacher, Mentor for UG students.**		

Achievements

- Currently acting as **Academic Council Member** in Karnataka State Akkamahadevi Women's University, Vijayapur from 21/07/2022 till date.
- Topper for MTech- 2012 batch with aggregate of 84.7% in BMSCE, Bengaluru.
- College topper for final year B.E with aggregate of 87.2% in B.L.D.E.A's Dr. P.G. Halakatti College of Engineering and Technology, Vijayapur.
- Qualified in GATE- 2010 exam and received GATE scholarship during MTech.
- 100% Result in most of the subjects taught.
- Guided several projects for UG and PG students.
- Attended many Faculty development programs to improve technical knowledge.
- Participated in college and school level group discussions, debate and essay competition and   received applauds.

Personal Qualities

- Good Knowledge and Experience of teaching technical concepts.
- Easily understood by students.
- Ability to work independently as well as in a team.
- Good teaching, communication and motivational skills.
- Quick Learner, Confident, Punctual & Hard worker.

Personal Details

Name: Shilpa Kaman
Date of birth: 16-11-1987
Father's Name: Sangamesh B. Kaman
Mother's Name: Saroja S. Kaman
Marital Status: Married
Spouse Name: Anand S. Kadani
Nationality: Indian
Mobile No: 9900093220
Languages Known: Kannada, English and Hindi

Date: 06/07/2024
Place: Vijayapur.