

CURRICULUM VITAE

Shilpa Kaman
Research Scholar (Full-time PhD)
Department of Computer Science
Karnataka State Akkamahadevi Women University
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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 | Position | From | To | Duration |
|--|---|------------|------------|----------|
| KSAWU Vijayapura | Research Scholar (Pursuing Full-time PhD) | 23/09/2021 | Till date | |
| 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 CONNECT 2024 | “Transfer Learning Strategies for Detecting Passive and GAN-Generated Image Forgeries with Pretrained Neural Networks” | IISC Bangalore | International |
| 2 | 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) |
| 3 | Second International Conference on Data Analytics & | “Efficient Wavelet based Denoising Technique Combined with features of Cycle spinning and | Alva’s Institute of Engineering & Technology, Moodabidri & | International |

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|---|---|--|---|----------------------------|
| | Learning 2022 (Dal'22) | BM3D for grayscale and color Images” | University of Mysore | |
| 4 | 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) |
| 5 | 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 |
| 6 | International Conference on Artificial Intelligence and Soft Computing (ICAISC-2021) | “Remote Sensing of Satellite Images Using Digital Image Processing Techniques A Survey” | KSAWU Vijayapur | |

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 of Modernization 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, Volume 184 | 2023 |
| 4 | “Efficient Wavelet based Denoising Technique Combined with features of Cyclespinning and BM3D for grayscale and color Images” | Springer publications in Lecture Notes in Networks and Systems series (LNNS) | ISBN: 978-981-99-6345-4, Volume 779 | 2023 |

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|----|--|--|--|------|
| 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 | “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 |
| 8 | “Spliced Image Forgery detection using Adaptive Over Segmentation combined with AKAZE, ORB and SIFT feature descriptors” | Journal of Transactions in Systems Engineering | ISSN: 2806-2973 Volume 1, Issue 3 | 2023 |
| 9 | “Enhancing Face Recognition through Dimensionality Reduction Techniques and Diverse Classifiers” | LC INTERNATIONAL JOURNAL OF STEM | E-ISSN: 2708-7123, Volume 05, Issue 01 | 2024 |
| 10 | “Deepfake Detection Using Statistical Features and Machine Learning Models” | NOVYI MIR Research Journal (UGC Group II) | ISSN NO: 0130-7673 | 2024 |
| 11 | “Remote User Authentication Using a Voice Authentication System” | Information Security Journal: A Global 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

https://figshare.com/articles/media/SDFVD2_0_Extension_of_Small_Scale_Deep_Fake_Video_Dataset/26239916?file=47558312

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 | 1 |
| <ul style="list-style-type: none"> • 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.