Curriculum Vitae

1. Name and full correspondence address
   Dr. Anjali Gautam, Room No. 5045, CC-III, Indian Institute of Information Technology
   Allahabad, Deoghat, Jhalwa, Prayagraj, Uttar Pradesh, Pin-211015

2. Email(s) and contact number(s)
   anjali31gautam@gmail.com, anjaligautam@iiita.ac.in

3. Institution
   Indian Institute of Information Technology, Allahabad

4. Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution
1	B.Tech	2012	Computer Science and Engineering	Graphic Era University Dehradun
2	M.Tech	2014	Computer Science and Engineering	G.B. Pant Engineering College, Pauri Garhwal
3	Ph.D.	2019	Computer Science and Engineering	Indian Institute of Technology Roorkee

5. Work experience (in chronological order).

S.No.	Positions held	Name of the Institute	From	To
1	Assistant Professor	DIT University, Dehradun	12/07/2019	13/01/2020
2	Assistant Professor	University of Petroleum and Energy Studies Dehradun	20/01/2020	19/06/2020
3	Assistant Professor	Women Institute of Technology, Dehradun	22/06/2020	13/11/2020
4	Assistant Professor	Indian Institute of Information Technology Allahabad	17/11/2020	Ongoing

6. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1	CSIR Travel Grant	Council of Scientific and Industrial Research	2016
2	Young Scientist Award	Uttarakhand Government of Science & Technology, UCOST	2018

7. Sponsored Projects

S.No	Project Title	Role	Awarding Agency	Year
1	Design and Development of Computer-Aided Diagnostic Software to Localize and Grade Eye Diseases using Deep Learning and Transformer Approaches	PI	SERB, DST	2023
2	Developing Deep Learning-Based Methodologies to Identify Breast Cancer	PI	IIIT Allahabad	2022

8. Publications *(List of papers published in SCI Journals, in year wise descending order).*

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1	Anjali Gautam, Divyesh Rana, Saksham Aggarwal, Swaraj Bhosle, Hritik Sharma	Deep Learning Approach to Automatically Recognise License Number Plates	Multimedia Tools and Applications	Not Assigned	-	2023
2	Anjali Gautam	Recent Advancements of Deep Learning in Detecting Breast Cancer: A Survey	Multimedia Systems	Not Assigned	-	2022
3	Anjali Gautam, Balasubramanian Raman	Brain Strokes Classification by Extracting Quantum Information from CT Scans	Multimedia Tools and Applications	Not Assigned	1-17	2021
4	Anjali Gautam, Balasubramanian Raman	Towards Accurate Classification of Skin Cancer from Dermatology Images	IET Image Processing	15(9)	1971-1986	2021
5	Anjali Gautam, Balasubramanian Raman	Towards Effective Classification Of Brain Hemorrhagic and Ischemic Stroke using CNN	Biomedical Signal Processing and Control	63	1-13	2020
6	Anjali Gautam, Balasubramanian Raman	Local Gradient of Gradient Pattern: a Robust Image Descriptor for the Classification of Brain Strokes from Computed Tomography Images	Pattern Analysis and Applications	23	797-817	2019
7	Anjali Gautam, Balasubramanian Raman	Segmentation of Ischemic Stroke Lesion from 3D MR images using Random Forest	Multimedia Tools and Applications	78 (6)	6559-6579	2018
	Anjali Gautam, Balasubramanian Raman, Shailendra Raghuvanshi	A Hybrid Approach for The Delineation of Brain Lesion from CT Images	Biocybernetics and Biomedical Engineering	38 (3)	504-518	2018

9. Books/Reports/Chapters/Conference papers/General articles etc.

S. No	Title	Author's Name	Publisher	Year of Publication
1	Defective fruit classification using variations of GAN for augmentation	Prateek Durgapal, Divyesh Rana, Saksham Aggarwal, Anjali Gautam	IEEE	2022
2	Generative Adversarial Networks for Inpainting Occluded Face Images	Riya Shah, Anjali Gautam and Satish Kumar Singh	IEEE	2022
3	Overview of Image Inpainting Techniques: A Survey	Riya Shah, Anjali Gautam and Satish Kumar Singh	IEEE	2022
4	Skin Cancer Classification from Dermoscopic Images using Feature Extraction Methods	Anjali Gautam and Balasubramanian Raman	IEEE	2020
5	A Modified FCM Based Brain Lesion Segmentation Scheme for Medical Images	Anjali Gautam, Debanjan Sadhya and Balasubramanian Rama	Springer	2019
6	Automatic Segmentation of Intracerebral Hemorrhage from Brain CT Images	Anjali Gautam and Balasubramanian Raman	Springer	2018
7	Automatic Classification of Leukocytes using Morphological Features and Naïve Bayes Classifier	Anjali Gautam, Priyanka Singh, Balasubramanian Raman and Harvendra Bhadauria	IEEE	2016
8	White Blood Nucleus Extraction using Kmean Clustering and Mathematical Morphing	Anjali Gautam and Harvendra Singh Bhadauria	IEEE	2014
9	Classification of White Blood Cells based on Morphological Features	Anjali Gautam and Harvendra Bhadauria	IEEE	2014
10	White Blood Nucleus Segmentation using an Automated Thresholding and Mathematical Morphing	Anjali Gautam, Harvendra Bhadauria and Annapurna Singh	TheIRED	2014

10. Any other Information
Thesis Supervision:
1. Bachelor of Technology: Supervised: 4; Ongoing: 2
2. Master of Technology: Supervised: 8; Ongoing: 8
3. Doctor of Philosophy: Supervised: 0; Ongoing: 2

Invited Talks/Expert Lectures/Convener/Coordinator
1. **Event:** Two days seminar on An Insight into Biometrics along with EEG for Digital Forensics using Machine learning and Deep Learning, 24-25 April 2023, Dr. Mahalingam College of Engineering & Technology, Pollachi, Tamil Nadu, INDIA.
   Topic: Deep learning architectures and it's selection.
   Role: Talk
2. **Event**: Hands on Recent Deep Learning Models for Real World Problems, Faculty Development Programme by Academic Staff College in association with School of Computer Science and Engineering, 20 April 2023, VIT Vellore, Tamil Nadu, INDIA.
   Topic: Medical Image Segmentation and Applications of GAN Architecture
   Role: Talk

3. **Event**: One Week National Level Workshop on Deep Learning and its Application, 14-19 November 2022, JSS Science and Technology University, Mysuru., INDIA.
   Topic: Deep Architectures: LeNet, AlexNet, ZF-Net, VGGNet, GoogLeNet, ResNet with Handson
   Role: Talk
4. **Event**: International Conference on Computer Vision and Machine Intelligence (CVMI) 2022, 12-13 August 2022, IIIT Allahabad, Prayagraj, INDIA
   Role: Convener
5. **Event**: 5th One-Week Self-Sponsored Short Term Course on Advances in Deep Architectures for Signal, Image & Vision Applications (ADASIVA) from Aug 8-13, 2022, IIIT Allahabad, INDIA.
   Topic: Recent Trends in Medical Image Analysis
   Role: Convener and Talk
6. **Event**: Invited expert talk on March 26, 2022, Institute of Technology & Management, Gwalior, INDIA.
   Topic: Image Feature Extraction and its Applications towards Image Classification
   Role: Expert Talk
7. **Event**: AICTE-ATAL Sponsored Five Days Faculty Development Program from Jan 17-21, 2022, Nagarjuna College of Engineering and Technology, Bangalore, INDIA.
   Topic: Applications of Deep Learning in Medical Images
   Role: Invited Talk
8. **Event**: 4th Edition of Advances in Deep Architectures in Signal Image and Vision Applications from Dec 6-10, 2021, IIIT Allahabad, INDIA.
   Topic: Applications of Deep Learning in Medical Image Segmentation
   Role: Convener and Talk
9. **Event**: Faculty Development Program on Advancement in Signal and Image Processing from Feb 8-12, 2021, Atria Institute of Technology Bangalore, INDIA.
   Topic: Applications of Deep Learning
   Role: Invited Talk

Administrative Responsibility
1. Warden: 1 September 2021-ongoing

Session Chairs in International Conferences
1. IEEE UPCON 2022
2. International Conference on Computer Vision and Machine Intelligence (CVMI) 2022
3. 6th International Conference on Computer Vision & Image Processing (CVIP) 2021
4. International Conference on Control, Automation, Power and Signal Processing (CAPS) 2021

Reviewer in Conferences
1. IEEE UPCON 2022
2. 7th International Conference on Computer Vision & Image Processing (CVIP) 2022
3. The Conference on Information and Communication Technology (CICT) 2022
4. 4th International Conference on Machine Intelligence and Signal processing (MISP2022)

and many more since 2014.

Reviewer in Journals
1. IET Image Processing
2. Multimedia Tools and Applications
3. Neural Computing and Applications
4. SN Computer Science etc.