: FACULTY DETAILED RESEARCH DATA:

Name of the Faculty: SANGITA BOSE

Designation: ASSISTANT PROFESSOR

Department: COMPUTER SCIENCE & ENGNEERING

School: SCHOOL OF ENGINEERING

Research Area: Artificial Intelligence and Machine Learning, Deep Learning

Details of research portfolio of faculty: A.

Researcher's ID details:

Google Scholar ID: X6ePv3sAAAAJ Orchid ID: 0009-0008-

8536-5012

Scopus ID Vidwan ID: 512392

B. Publication details:

1. Conference proceedings/ Conference paper:

Sl. No.	Name of the Conference	Title of the paper	Month & Year of Publication	Author(s) Name	National/ International	doi number (if any)	ISSN/ISBN no.
1	Computational Intelligence in Communications and Business Analytics (CICBA-2022)	A Smart Farming Production Approach Using Drones and IoT after COVID -19 situations	2022	Sangita Bose, Dr. Romit S Beed	International		
2	International Conference on Integrative Science and Engineering (ICISE) 2023	Recent Advancement and Future Perspective of 6G Communication	September 2023	S. Bose, P. Nag, S. Maji, P. Roy Choudhury, S. Chatterjee	International		

3	International Conference on Integrative Science and Engineering (ICISE) 2023,September 2023.	A Smart Farming Production Approach Using Drones and IoT after pandemic situations	September 2023	S. Bose, R. Beed	International	
4	International Conference on Integrative Science and Engineering (ICISE) 2023	Study and Development of Online Recommendation System for Healthcare Support	September 2023	S. Bose, A. Dutta	International	
5	International Conference on Integrative Science and Engineering (ICISE) 2023	Study and development of a Machine Learning-Based Intelligent Food Recommendation System	September 2023	S. Bose, J. Paul	International	
6	International Conference on Integrative Science and Engineering (ICISE) 2023	Visualization of Figural Representation and Emotion Recognition Using Deep Learning	September 2023	A. Bose, R. Pal Das, S. Bose	International	
7	International Conference on Engineering Design and Computing (ICEDC)-2024	Disease Prediction System using Machine Learning	February 2024	S. Bose	International	
8	International Conference on Engineering Design and Computing (ICEDC)-2024	Cognitive Transfer Learning: Leveraging Human-Like Learning Strategies for Machine Intelligence	February 2024	S. Bose, A. Mondal	International	

9	International Conference on Engineering Design and Computing (ICEDC)-2024	Ephemeral Learning Machines: Adaptable Models for Rapidly Changing Data Environments	February 2024	S. Bose, R. Mondal	International	
10	International Conference on Engineering Design and Computing (ICEDC)-2024	Meta-Reasoning Agents: Self-Aware Systems for Autonomous Decision-Making	February 2024	S. Bose, M. Mandal	International	
11	International Conference on Engineering Design and Computing (ICEDC)-2024	Fashion Trend forecasting with machine learning: predicting consumer preferences for personalized recommendation	February 2024	S. Bose, A. Chatterjee	International	
12	International Conference on Engineering Design and Computing (ICEDC)-2024	Graph neural network for culinary pairing; enhancing flavor harmony in food recommendation	February 2024	S. Bose, S. Saha	International	
13	International Conference on Engineering Design and Computing (ICEDC)-2024	Eco aware Machine learning: Minimizing Environmental Footprints in Model training	February 2024	S. Bose, N. Kumari	International	
14	International Conference on Engineering Design and Computing (ICEDC)-2024	Quantum-inspired neural networks: A hybrid approach to enhance computational efficiency	February 2024	S. Bose, S. Pramanick	International	

15	International Conference on Engineering Design and Computing (ICEDC)-2024	Neuromyotonic Fusion: Integrating Symbolic Reasoning with Deep Learning Architectures	February 2024	S. Bose, P. Gorai	International	
16	International Conference on Engineering Design and Computing (ICEDC)-2024	Dynamic Object Recognition in Visual Search: A Real Time Machine Learning Framework	February 2024	S. Bose, S. Midya	International	
17	International Conference on Engineering Design and Computing (ICEDC)-2024	Leaf Disease Detection using Machine Learning: A Review and Comparative Analysis	February 2024	S. Bose, S. Acharjya	International	
18	International Conference on Engineering Design and Computing (ICEDC)-2024	Disease Prediction System using Machine Learning	February 2024	S. Bose, S. Marick	International	
19	International Conference on Engineering Design and Computing (ICEDC)-2024	Face recognition- grounded attendance monitoring system for educational institution	February 2024	S. Bose, S. Ghosh	International	
20	International Conference on Integrative Science and Engineering (ICISE) 2024	Dynamic Pricing Strategies in E- commerce: A Reinforcement Learning Approach for Real-time Adaptation	June 2024	S. Bose, S. Chakraborty, S. Paul, S. Debnath, P. Chakraborty	International	

21	International Conference on Integrative Science and Engineering (ICISE) 2024	Ensemble Methods for Robust Food Recommendations: Aggregating Models for Improved Diversity and Accuracy	June 2024	S. Bose, S. Marick	International	
22	International Conference on Integrative Science and Engineering (ICISE) 2024	Deep Style Embeddings for Fashion Recommendation: Bridging the Gap between Visual Aesthetics and User Preferences	June 2024	S. Bose, S. Midya	International	
23	International Conference on Integrative Science and Engineering (ICISE) 2024	Neuroevolutionary Strategies: Combining Evolutionary Algorithms with Deep Learning for Model Design	June 2024	S. Bose, D. Mondal, S. Ghosh, T. Chowdhury, S. Guha, S. Saif	International	
24	International Conference on Integrative Science and Engineering (ICISE) 2024	Explainable AI in Culinary Arts: Interpretable Models for Transparent Food Recommendations	June 2024	S. Bose, A. Biswas, S. Mondal, S. Das, J. Chakraborty, S. Bhattacharjee	International	
25	International Conference on Data Management, Analytics & Innovation	Clustering-based Multivariate Prediction Model for Infectious Disease Forecasting in India	January 2025	Sangita Bose, Romit S Beed	International	
26	International Conference on Data Management, Analytics & Innovation	A clustering-based prediction approach for new cases of COVID-19 in India	January 2025	Sourav Malakar, Sangita Bose, Saptarsi Goswami	International	

2. Publications in SCI/Scopus indexed Journals:

SI. No	Name of the Journal (mention SCI/scopus)	paper	Month & Year of Publication	Author(s) Name (Highlight the corresponding and 1st author in every article)	doi number	Issue No. &Volume No.	Page no.	ISSN of the journal
1.	International Journal of HIT Transaction on ECCN,	An Analysis and Discussion of Human Sentiment Based on Social Network Information	2021	S. Bose S. Samanta, S. Chatterjee, B. Chakraborty, P. Halder	DOI: 10.5281/zenodo.5892855	Issue-1A (2021), Page 62-71 & Volume 7		ISSN: 0973-6875

3. Book chapter:

	Title of the book	Publishers	Author(s) Name	Year	ISBN	doi no. (if
Sl.			(Highlight the	;	No.	applicable)
No.			corresponding and 1s	t		
			author in every article)			
	Sustainable and	Swami	Sangita Bose	2024	978-93-	
1	Predictive Analytics	Vivekananda			5967-	
	Model	University			752-1	
	Applications of Internet	Swami	Sangita Bose	2024	978-81-	
2	of Things (IoT) in Smart	Vivekananda			974233-	
	Cities	University			0-7	
	The Evolution and	Swami	Sangita Bose	2024	978-81-	
3	Future of Generative AI:	Vivekananda			974233-	
	From Theory to Practice	University			5-2	
	Application of Machine	Swami	Sangita Bose	2024	978-81-	
4	Learning in Smart	Vivekananda	_		974233-	
	Education Technology	University			2-1	

4. Text/Reference book published from reputed national/international publishers:

3	Sl.	Title of the Text/Reference	Publishers	Author(s) Name	Year	ISBN	doi no. (if
1	No.	book		(Highlight the		No.	applicable)
				corresponding and			
				1 st author in every			
				article)			

5. Project granted:

			Du	ıtion		
Sl. No	Sponsoring Agency	Name of the project	Starting Month & Year	Ending month & Year	Amount in Lakhs	PI/ CO- PI

6. Consultancy Project Grant:

Sl No.	Project title	Funding Agency	Duration	Completed (yes/no)	Sanctioned amount (in Rs.)	PI and CO- PI (if any)

7. Patent/IPR granted:

Sl. No.	Name of the patent	Name of the applicant	Name of the inventor	Date of File	Date of Publication	Whether Granted (yes/no); If yes, Date of Grant	Application No.
1	Blockchain crowdfunding Platform	Swami Vivekananda University	Sangita Bose, Sourav Saha, Jayanta Chowdhury, Diganta Bhattacharyya, Arka Provo Naskar, Sneha Mondal, Faizal Khan, Munmun	24/11/2024	29/11/2024	NO	202431091485 A

			Ghosh, Sambit Paul				
2	Youtube Clone Video Library	Swami Vivekananda University	Sumit Maric, Sangita Bose, Sourav Saha, Diganta Bhattacharyya	29/11/2024	06/12/2024	NO	202431093720 A
3	Crime pattern analysis and rate prediction	Swami Vivekananda University	Diganta Bhattacharyya	29/11/2024	06/12/2024	NO	202431093827A
4	Data analysis using machine learning on geo location data	Swami Vivekananda University	Sukanya Dutta Gupta , Prof. Somsubhra Gupta, Sangita Bose , Sourav Saha , Diganta Bhattacharyya	30/11/2024	06/12/2024	NO	202431094195 A
5	Face mask detection in real time	Swami Vivekananda University	Beauty Mondal, Sangita Bose, Sourav Saha, Jayanta Chowdhury, Diganta Bhattacharyya	03/12/2024	13/12/2024	NO	202431095248 A
6	A Heart arrhythmia prediction using Artificial neural network	Swami Vivekananda University	Sangita Bose, Arpita Samanta, Sourav Saha, Diganta Bhattacharyya, Jayanta Chowdhury	04/12/2024	13/12/2024	NO	202431095820 A
7	Heart disease prediction from symptom analysis using machine learning	Swami Vivekananda University	Srija Biswas, Prof. Somsubhra Gupta, Sangita Bose, Sourav Saha, Diganta Bhattacharyya	04/12/2024	13/12/2024	NO	202431095834 A
8	Anti-fraud system for credit card transaction using machine learning & data science	Swami Vivekananda University	Rituparna Maity, Prof. Somsubhra Gupta, Sangita Bose, Sourav Saha, Jayanta Chowdhury, Diganta Bhattacharyya	05/12/2024	20/12/2024	NO	202431096209 A
9	Precision in Estimation of Crop Yields using Machine Learning	Swami Vivekananda University	Sudipta Ghosh, Sangita Bose, Sourav Saha, Jayanta Chowdhury, Diganta Bhattacharyya	05/12/2024	20/12/2024	NO	202431095882 A
10	Analyzing customer bank churn using	Swami Vivekananda University	Sangita Bose, Sourav Saha, Jayanta Chowdhury,	05/12/2024	20/12/2024	NO	202431096223 A

	ensemble learning models		Diganta Bhattacharyya				
11	Plant disease detection application	Swami Vivekananda University	Sourav Saha, Diganta Bhattacharyya, Subhankar Karmakar, Md. Arif Ahmad, Maroof Raza, Narayan Kumar Bhandari, Sabikun Nahar, Sangita Bose, Jayanta Chowdhury	05/12/2024	20/12/2024	NO	202431096218 A
12	An intelligent gender identification method based on facial images using compound modules	Swami Vivekananda University	Payal Bose, Sangita Bose, Sourav Saha	24/11/2024	29/11/2024	NO	202431091480 A
13	Brain Tumor Prediction using Machine Learning	Swami Vivekananda University	Sumana Chakraborty, Promita Maji, Sourav Saha, Sangita Bose, Jayanta Chowdhury	27/11/2024	06/12/2024	NO	202431092982 A
14	Cardiovascular Diseases Prediction using Multimodal Methodology in Deep Learning	Swami Vivekananda University	Sumana Chakraborty, Anupam Chowdhury, Sourav Saha, Sangita Bose, Jayanta Chowdhury	28/11/2024	06/12/2024	NO	202431093353 A
15	Motion Maze- where Gestures Lead to Gaming Adventures	Swami Vivekananda University	Jayanta Chowdhury, Prof. Somsubhra Gupta, Apurba Sarka, Goutam Mondal, Ananya Das, , Sourav Saha, Sangita Bose	30/11/2024	06/12/2024	NO	202431094152 A
16	Parameter monitoring of incubator using IoT and Cloud	Swami Vivekananda University	Sanjay Nag, Debalina Ghosh, Sourav Saha, Sangita Bose, Jayanta Chowdhury	02/12/2024	13/12/2024	NO	202431094855A
17	Plant Leaf Disease Detection Using Deep Learning	Swami Vivekananda University	Sukriti Santra, Tanmoy Kumar, Bishoi, Sourav Saha, Sangita Bose, Jayanta Chowdhury	05/12/2024	20/12/2024	NO	202431095911 A

18	Hybrid Compiler	Swami Vivekananda University	Souvik Gayan, Diprati Das, Prof. Somsubhra Gupta, Sangita Bose, Sumana Chakraborty, Subrata Nandi	21/05/2024	19/07/2024	NO	202431039789 A
19	Virtual Trial Room	Swami Vivekananda University	Jayanta Chowdhury, Apurba Sarkar, Deep Ash, Suhita Sen, Rupsa Saha, Swastika Mitra, Tiyasha Patra, Sourav Saha, Sangita Bose	03/12/2024	13/12/2024	NO	202431095278 A