Name of Teaching Staff Designation Department Date of Joining the Institution Email ID Office Contact	: : : : : :	Dr. Sunny B. Sall Associate Professor and HOD Computer Engineering 24-06-2019 sunny_sall@yahoo.co.in/ sunnys@sjcem.edu.in 02525297275/ 8976226221	Photo Passport Size 
Qualifications With Class/Grade	:	B.E. (Computer) First Class, M.E. (Computer) First Class, Ph.D. (Technology)	
Total Experience in years	:	20 Years	
Area of Specialization	:	Security Internet of Things Wireless Communication and Ad-hoc Networks Artificial Intelligence & Machine Learning Natural Language Processing Data Science Computer Programming	
Google Scholar Link	:	Sunny Bhavan Sall - Google Scholar	
Researchers ID	:	https://www.webofscience.com/wos/author/record/OSH-7705-2025	
Vidhwaan Portal ID	:	https://vidwan.inflibnet.ac.in/profile/398546	
ORCID	:	0000-0002-8955-4952	
Papers Published in Journal:	:	**1)** Enhancing Named Entity Recognition through Advanced Sequence Labeling using Conditional Random Fields with Contextual Feature Integration **2)** Sign Language Detection and Recognition using Image Processing for Improved Communication **3)** The Inclusion of Artificial Intelligence in Teaching Learning Process is Blessing or Curse **4)** Advancements in Supercritical Fluid Extraction for Enhancing Bioavailability of Food-Derived Polyphenols **5)** AI Based Plant Disease Recommendation and Solution **6)** An Intelligent Real-Time Breast Cancer Classification in a Cloud Environment Using Optimized ELM **7)** A LangGraph-Orchestrated Multimodal Framework for Real-Time, Persona-Aware Travel Planning Using LLMs and Hallucination Resistant RAG-Based Itinerary Optimization **8)** Enhancing Suicide Ideation Detection with Multimodal Deep Learning: Ethical, Explainable, and Privacy-Preserving Framework **9)** Hybrid Machine Learning and Deep Learning Approach for Heart Attack Prediction Using Clinical, Lifestyle, and Time-Series Data with Enhanced Feature Selection and Classification	

		10) Automated Hybrid Feature Extraction for White Blood Cells Classification Using Radiomics and Graph Neural Networks (GNN) **11)** Leveraging Machine Learning to Enhance Public Health Outcomes: A Comprehensive Approach to Disease Prediction, Prevention and Management **12)** Dynamic Algorithm Selection for Replication using RSYNC **13)** Bridging the Gaps in AI-Driven Healthcare: Enhancing Interpretability, Affordability, and Security for Scalable Patient-Centred Solutions **14)** Exploration of OpenCV for Hand Gesture Recognition Techniques - A Review **15)** Elucidating Mechanisms of Gut Microbiota Influence on Mental Health: Bridging Animal Models to Human Clinical Trials for Effective Microbiota-Targeted Therapies **16)** Machine Learning Prediction Techniques for Student Placement/Job Role Predictions **17)** AgroScan: Crop Identification Application using AI **18)** Autovista: AI for Personalized Automobile Recommendation & Predictive Maintenance **19)** Voice-Based E-Mail System for Visually Impaired People **20)** Obstacles to the Full Realization and Adoption of Artificial Intelligence (AI) **21)** Development of Advanced Bioinformatics Tools for Integrating Genomic Data and Enhancing Diagnosis of Rare Diseases **22)** Therap-Ease: Conversational Chat-bot for Mental Health **23)** Uprising Smart Technology Based Solutions: Food Safety and Traceability in the Cold Supply Chain through Digital Technologies **24)** Detection & Prevention of Credit Card Fraud using Emerging Techniques of Block-chain & Machine Learning **25)** Smart Price Negotiator: An Integrated NLP and Reinforcement Learning-Based Chat-bot for E-Commerce Applications **26)** Interactive Informational Chat-bot with Research Integration **27)** AI-Powered Personalized Nutrition: A Deep Learning Framework for Predicting Dietary Interventions Based on Gut Microbiome Profiles in Indian Populations **28)** Bridging the Gap in Neonatal Surgical Care in Low-Resource Settings: A Multimodal Approach Integrating Protocol-Based Care, Simulation Training, and Telemedicine **29)** Lightweight Cryptography Using Pairwise Key Generation and Malicious Node Detection in Large Wireless Sensor Network **30)** Handling Large-Scale Document Collections using Information Retrieval in the Age of Big Data **31)** Exploring Sentiment Analysis in Social Media: A Natural Language Processing Case Study **32)** Novel Approach for Service and Channel Selection with QoS Parameters using Optimization Techniques in Large Networking Environment **33)** Optimization Based Path Finding Techniques Using Genetic Algorithm in Large Wireless Sensor Network **34)** Energy Efficient Approaches for Dynamic Cluster Head Selection Using Optimized Genetic Algorithm in Cluster Networks of WSN

		35) Broadcast Tree Construction for Shortest Path finding techniques in WSN IEEE 802.11n **36)** Secure Data Aggregation and Data Transmission Using HMAC Protocol in Cluster Base Wireless Sensor Network **37)** R. Yadav, S. Sall, "Traffic Rules Violation System using NFC Card, International Research Journal of Engineering and Technology, Apr.- 2018 **38)** S. Sall, "E- Food-court Android Application for Ordering Food at a Mall's Food Court" International Journal for Technological Research in Engineering, Vol. 3, Issue 7, Mar- 2016 **39)** S. Sall, "Association Classifier for predictive analysis in health care mining" International Journal of Recent Trends in Engineering & Research Vol. 2, Issue 3, Mar- 2016 **40)** P. Sonar, S. More, S. Yadav, S. Sall, "Sales and Inventory Prediction Using Data Mining" International Journal for Technological Research in Engineering, Vol. 3, Issue 7, Mar- 2016 **41)** S. Sall, "Research on Simulation of Banking System for Measuring the productivity of the Resources involved within the System" International Journal of Research in Engineering and Technology, Vol. 4, Issue 10, Oct- 2015 **42)** S. Sall, R. Sharma, "Implementation of Example Based Machine Translation Using Natural Language Processing" IJERT, Aug- 2014 **43)** S. Sall, R. Sharma, R. R. Sedamkar, "Example Based Machine Translation Using Natural Language Processing" IJSER, Mar- 2013
Papers Presented in Conferences	:	**1)** "AR/VR based multimodal learning modal for dyslexic students", ICRAMEN APRIL 2026 **2)** "Design & Fabrication of Steering System for GO-Kart", ICRAMEN 2025 **3)** S. Sall, A. Yadav, "IoT based Weather Station" International Conference on Intelligent Systems and Communication Networks, (Multicon- W) Feb- 2019 **4)** S. Sall, M. Rana, P. Wagela, V. Rane, "Intelligent Media System Design" International Conference & Workshop on Advanced Computing, Feb- 2013 **5)** S. Sall, M. Rana, P. Wagela, V. Rane, "Design of Human Computer Interaction Using Natural Language Processing" International Conference & Workshop on Advanced Computing, Feb- 2013 **6)** S. Sall, M. Rana, P. Wagela, V. Rane, "Intelligent Robotics Mechanism Design" International Conference & Workshop on Advanced Computing, Feb- 2013 **7)** S. Sall, M. Rana, "an Illustration of Chinese Remainder Theorem" International Conference & Workshop on Emerging Trends in Technology, Feb- 2012
Books Published/IPR/Patents	:	Patents: 1) A Unique Algorithm for Context-Aware Language Translation (German) 2) Deep Neural Network Based Offloading of Video Surveillance IOT Applications in Cloud Computing (Indian) 3) Adaptive Energy Harvesting Device with Dynamic Source Switching Capability (Indian)

		4) "A shortest path finding system to eliminate the network overhead during the communication". Application No.: 202022106165. (German) 11/11/2022 Book Chapters: 5) "Secure Data aggregation and data Transmission using HMAC Protocol in Cluster base Wireless Sensor Network" Intelligent Computing and Networking, Springer, Nov- 2020 Books: 6) "THE FUTURE OF REALITY: COMPREHENSIVE INSIGHTS INTO AR AND VR TECHNOLOGIES" Technical Press 7) "THE DISCIPLINE OF SOFTWARE TESTING AND QUALITY ASSURANCE" Technical Press 8) "THE ARTIFICIAL INTELLIGENCE-READY MIND: ROUTINES THAT FUTURE PROOF YOUR LIFE" Technical Press Copyrights: 9) Online Fraud Detection 10) Copyright S. Sall, R. Bansode, "Data Aggregation in WSN to detect and prevent Network vulnerabilities", Reg. No. – L117727/2022 Dated: 26/09/2022.
Professional Memberships with ID	:	Lifetime Membership of ISTE (LM 74214), 2010
Grants Fetched	:	1) AICTE IDEA LAB (Rupees 90,00,000) 2) SEED Money Funds (Rupees 80,000) 3) SEED Money Funds (Rupees 40,000)
Technical/NPTEL certifications	:	1) Problem Solving Using Programming in C (NPTEL) 2) Core Java (Certification Course) 3) Advanced Java (Certification Course) 4) Visual Basics (Certification Course)

Board of Studies member, BoE under any State/ Central University	:	1) BOS Chairman of Computer Engineering, St. John College of Engineering and Management, Palghar. 2) BOS Chairman of Computer Science and Engineering (Data Science), St. John College of Engineering and Management, Palghar. 3) BOS member of Computer Engineering, St. John College of Engineering and Management, Palghar. 4) BOS Member as Subject Expert for AIML Department at VIVA Institute of Technology, Virar (E).	
Institute/Department Responsibility handled	:	Head of the Department of Computer Engineering AICTE IDEA LAB Coordinator, SJCEM Entrepreneurship Club in-charge, SJTC Entrepreneurship Cell in-charge, SJCEM IIC in-charge, SJCEM NSS Program Officer, SJCEM Exam Coordinator of Computer Engineering, SJCEM Timetable In-charge of Computer Engineering, SJCEM Training and Placement co-coordinator of Computer Engineering, SJCEM	
M.E./M.Tech/PhD Guide? Give field & University	:	Field: University:	Computer Engineering, University of Mumbai

PhDs/Projects Guided	:	Masters	1) Automated Hybrid Feature Extraction for White Blood Cells Classification Using Radiomics and Graph Neural Networks (GNN) 2) Dynamic Algorithm Selection for Replication using RSYNC 3) A LangGraph-Orchestrated Multimodal Framework for Real-Time, Persona-Aware Travel Planning Using LLMs and Hallucination Resistant RAG-Based Itinerary Optimization 4) An Intelligent Real-Time Breast Cancer Classification in a Cloud Environment Using Optimized ELM 5) Enhancing Named Entity Recognition through Advanced Sequence Labeling using Conditional Random Fields with Contextual Feature Integration

Interaction with Professional Institutions	:	Guest Lectures:	1) Guest lecture on Design Thinking at Kashi Institute of Technology, Varanasi 2) Guest lecture on NEP 2020 at Kashi Institute of Technology, Varanasi 3) Guest lecture on Advanced Microprocessors at Viva Institute of Technology, Virar 4) Expert Talk on C/ C++ Programming at INS Hamla
Subjects Taught		1) Data Structures 2) Analysis of Algorithms 3) Microprocessor and Computer Architecture 4) Microprocessor and Programming 5) Systems Programming 6) Systems Programming and Compiler Construction 7) Data Warehousing and Mining 8) Data Mining and Business Intelligence 9) Artificial Intelligence 10) Machine Vision 11) Advanced Computer Networks and Design 12) Cloud Computing 13) Cloud Computing and Services 14) Digital Signals Processing 15) Digital Signals and Image Processing 16) Image Processing 17) Software Engineering 18) Software Testing 19) Computer Networks	

		20) Ad-hoc Wireless Networks 21) Object Oriented Programming with C++ 22) Object Oriented Programming with Java 23) Visual Basic 6.0 Programming 24) Programming in C 25) Programming in C++ 26) Java Programming 27) Advanced Java Programming 28) Skills Based Laboratory 29) Computational Laboratory