Mr. SHIPLU DAS

Email: shiplud63@gmail.com / shiplud6@gmail.com
Mobile No: 7980901429 / 8013594840(WhatsApp)
Research Area: Machine Learning, Deep Learning and Computer Vision
https://scholar.google.com/citations?user=_nVWoisAAAAJ&hl=en

Career Objective:

To work as a team member in a challenging and highly competitive environment where I would be able to expand my knowledge and explore my abilities and hence contribute to the best of myself.

Educational Qualifications:

- **PhD** (Pursuing-**Registered**) [PhD/R/CSE/20007/630] in the department of Computer Science and Engineering from **IIIT (Indian Institute of Information Technology), Kalyani.**
- **M.Tech** in the department of Computer Science & Engineering from **Jadavpur University**, Kolkata with CGPA **8.28**. (Ranked **3rd** in the Department).
- **B.Tech** in the department of Computer Science & Engineering from **West Bengal University of Technology** with a DGPA of **8.34**. (Ranked **5th** in the Department).

Work Experience:

- ❖ **Assistant Professor** in the Department of Computer Science and Engineering at **Adamas University** from **3rd July,2023 to till date.**

Departmental Activities:

- NAAC Coordinator (Criteria-1 and Criteria-6) in the Dept of Computer Science and Engineering.
- Member of Future Connect Workshop on AI-Cyber Security.
- Batch Coordinator of B.Tech CSE 1st Year Sec-I and CSE AIML 2nd Year Sec-D.
- Coordinator of Internal Hackathon (2023 and 2024).
- Coordinator of Hack-O-Nova 2.0 (2023).
- Coordinator CSE Poster Competition (2023).
- Member of the Computer Society of India.
- Member of the Internet Society.
- Mentor for NPTEL for various subjects.
- Mentor of Students research work and projects.
- Coordinator of Clash of code (2023).
- Member of University Convocation 2023.
- Lab in Charge.

❖ **Assistant Professor** in the Department of Computer Science and Engineering at **Brainware University** from **September, 2019 to 30th June,2023.**

Departmental Activities:
Teacher in charge (B. Tech CSE 4th Year Students) from 1st April, 2022 to 30th June,2023 in the Computer Science and Engineering.

- Placement Coordinator in the department of Computer Science and Engineering.
- Designed a new syllabus of different subjects.
- Organized Workshop on "Machine learning using python" as Convener.
- Organized FDB on "Research Trends in Advanced Computing (RTAC)" as a Convener.
- Organized a Seminar on "career growth in Industries" as convener.
- Cultural committee member in the Dept of Computer Science and Engineering.
- Assisting & counseling students in their course & academic matters and in various aspects of their career path.
- Conducted various seminars, presentations and other activities in the institute.
- Coordinating with students and supervising them regarding Research and Innovation.
- Hospitality Committee member in "1st International conference on Current research in Engineering and Technology" November, 2021 at Brainware University.
- Hospitality Committee member in "2nd International conference on Current research in Engineering and Technology" November, 2022 at Brainware University.
- Organized Chair in "7th International Conference on Advances in Computing and Data Science" Springer, April,2023 at Brainware University.

❖ **Senior Lecturer** in the Computer Science and Technology Department at **Budge Budge Institute of Technology** from **September 2014 to September 2019**.

Departmental Activities:
- **Examination Cell** Member
- **Routine committee** member.
- Academic Committee
- Tech-Fest Organizing Committee
- Student Attendance Monitoring Committee
- Cultural Committee Member
- Coordinated JEXPO 2014 as Member of Examination Cell.
- Course Coordinator for Spoken Tutorial organized by IIT Bombay.
- The mentor for NPTEL local chapter at Budge Budge Institute of Technology.
- Contributed towards designing the curriculum for various subjects.
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❖ **Software Developer** of Patel Information Technology Services (6 months), 2014.

Activities:
- Contributed towards designing the curriculum for various Projects.
- Completed The Company Software Data Modeling System based Software using VB .Net.

Subjects of Interest:

C, Data Structure, Formal Language and Automata Theory, Computer Architecture, DBMS, Software Engineering, Computer Graphics, System programming & Compiler Design, Object Oriented Programming in Java, Operating System, E-Commerce, Computer Networking, Design and Algorithm, IT-Workshop, Digital Electronics, Machine Learning and Deep Learning.

Practical Lab:

Data Structure Lab, Database Management System Lab, Network Lab, Operating System Lab, Python Lab, Graphics Lab, Visual Basic Lab, HTML, C++ Lab, IT-Workshop Lab (using MATLAB) and Ethical Hacking.

IT Skills:

Programming Languages:
C, C++, Java, MATLAB, R, Python, Shell, PhP, Html, CSS, SQL, PLSQL and VB Dot Net.

Certification Course:

- Completed "Enterprise Blockchain for the Internet of Things", IEEE in 2020
- Completed "Cloud Based Solutions for Big Data", IEEE in 2020
- Completed "Enterprise Blockchain Overview", IEEE in 2020
- Completed "Designing Security Solutions for Edge, Cloud, and IoT", IEEE in 2020
- Completed "Overview of Edge Computing", IEEE in 2020.
- Completed "One Week Online Short-Term Course on Machine Learning and its Application in IoT, Computer Vision and Cloud Computing" (MICC 2023) July,2023 at NIT, Jashedpur.

Faculty Development Programs

- **Two Weeks** Faculty Development Program on Emerging Concepts in Modern Computational Systems (ECMCS) conducted by Brainware University on December 16 - 28, 2020.
- **3 Days** Faculty Development Program on Research Trends in Advanced Computing (RTAC)" conducted by the Department of Computer Science & Engineering, Brainware University from June 17,2020 to June 19,2020.
- **Five Days** Faculty Development Program on "Sensors & Their Applications" held from 13/07/2020 to 17/07/2020.by VEMANA INSTITUTE OF TECHNOLOGY.
- **3 Days** Faculty Development Program on Recent Trend in Technology and Teaching Learning Methodology from 9th July to 11th July,2020
- **12 Days** Faculty Development Programme on "Mentoring for Mental Well-Being of University Students" organized by the IQAC of Brainware University, Barasat from July 20, 2020 to August 7, 2020
- **Five Days** AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2020-12-14 to 2020- 12-18 at National Institute of Technology Meghalaya.
- **Five Days** ONLINE SHORT-TERM TRAINING PROGRAM (STTP) ON "ARTIFICIAL INTELLIGENCE AND ITS SOCIETAL APPLICATIONS", ORGANIZED BY THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AT NIT MEGHALAYA DURING 22ND-26TH MARCH, 2021.
- **Five Days** International Faculty Development Program on "Future proofing Technology: Navigating Emerging Trends in Computing and Security" organized by Adamas University from 24th July to 28th July, 2023.
- **Five Days** Faculty Development Program organized by the Departments of CSE, CSE (IOT, CYS, BCT), & CSE (AI&ML) University of Engineering and Management, Kolkata on "Applications of Machine Learning in Various Research Fields" from 19th February, 2024 to 23rd February, 2024.

- **Five Days** Short time course on Machine Learning and its Application in IoT, Computer Vision and cloud computing 10th-14th July, 2023, NIT, Jamshedpur.

Achievements

- Achieved **Academic Excellence Award** in Brainware University organized by Quality Assurance Cell of BWU.2020

- Departmental **Highest Students Feedback** in Brainware University organized by Quality Assurance Cell of BWU 2022
- Achieved **Best Faculty Award** in Budge Budge Institute of Technology, 2018

Publications
Book Chapter and Conference:
- Das, S., Chattopadhyay, S., Prasad, R., Kundu, J., Pal, S. (2022). Text Region Identification from Natural Scene Images Using Semi-Supervised MSER Method on 2nd International Conference on Mathematical Modeling and Computational Science. Advances in Intelligent Systems and Computing, vol 1422. Springer, Singapore. https://doi.org/10.1007/978-981-19-0182-9_40
- Prasad, R., Chattopadhyay, S., Das, S. (2023). Trustworthiness of Customer Reviews of E-Commerce Portal Using Supervised and Semi-supervised Machine Learning Techniques. In: Kumar Singh, K., Bajpai, M.K., Sheikh Akbari, A. (eds) Machine Vision and Augmented Intelligence. Lecture Notes in Electrical Engineering, vol 1007. Springer, Singapore. https://doi.org/10.1007/978-981-99-0189-0_43
- Das S, Pradhan B,Sharma S, Jana B, Das G, Chakroborty P, Intelligent Infrastructure of Route Scheduling for Smart Transportation System in Smart City at IGI Global on "Network-Enabled IoT Applications for Smart City Services" Scopus Indexed. ISBN13: 9798369307441 DOI: 10.4018/979-8-3693-0744-1
- Das, S. et al. (2023). Machine Learning and Deep Learning-Based Smart City Infrastructure to Connect Intelligent Domain Using Internet of Things. In: Sarkar, D.K., Sadhu, P.K., Bhunia, S., Samanta, J., Paul, S. (eds) Proceedings of the 4th International Conference on Communication, Devices and Computing. ICCDC 2023. Lecture Notes in Electrical Engineering, vol 1046. Springer, Singapore. https://doi.org/10.1007/978-981-99-2710-4_23
- An AI-based Integrated Framework for Motion-Activated Facial Recognition at 2nd International Conference on Innovation Data Analytics (ICIDA 2023) Springer, Scopus Index
- Das, S., Chakraborty, G., Joardar, D., Paul, S., & Pradhan, B. (2025). IoT-Based Health Monitoring Using a Hybrid Machine Learning Model. Smart Sensors for Industry 4.0: Fundamentals, Fabrication and IIoT Applications, 1-13.
- Das, S., Bhattacharjee, A., Chakraborty, G., & Joardar, D. (2024). Evaluating the Readability of English Language Using Machine Learning Models. How Machine Learning is Innovating Today's World: A Concise Technical Guide, 69-88.
- Das, S., Sen, S., Joardar, D., & Chakraborty, G. (2024). Image Enhancement Techniques to Modify an Image with Machine Learning Application. How Machine Learning is Innovating Today's World: A Concise Technical Guide, 139-158.
- Das, S., Chakraborty, G., Pal, R. K., Banik, A., & Joarda, D. (2023, November). An AI-Based Integrated Framework for Motion-Activated Facial Recognition. In International Conference on Innovations in Data Analytics (pp. 381-393). Singapore: Springer Nature Singapore.
- Das, S., Sarkar, S., Dutta, S., Ghosh, S., Dhar, S., Pradhan, B., & Sahana, S. (2023, March). Machine Learning and Deep Learning-Based Smart City Infrastructure to Connect Intelligent Domain Using Internet of Things. In International Conference on Communication, Devices and Computing (pp. 289-301). Singapore: Springer Nature Singapore.
- Das, S., Pratihar, S., & Pradhan, B. Multisensor-Based Multitasking Goggles to Reduce Road Accidents. Recent Advances in Artificial Intelligence and Smart Applications, 1.
- Das,S., Bhattacharjee, A., Ghosh A., Automated Detection of Child Emotion and Analysis of Child Psychology through Deep Learning Models. International Conference on Artificial Intelligence and Sustainable Computing 2024. Springer Nature (In-Press)
- Das, S., Chowdhury R., Biswas S., ML based Smart Farm Management System for Agricultural Revolution. International Conference on Artificial Intelligence and Sustainable Computing 2024. Springer Nature (In-Press)
- Das,S., Bhattacharjee, A., Das P., Chatterjee A., Enabling Independence: Machine Learning-Driven Obstacle Detection for the Visually Impaired. International Conference on Smart Systems and Wireless Communication. 2024. Springer Nature (In-Press)
- Das,S ., Pradhan B., Mondal S., Halder S., Gupta S., Enhancing Object Identification Using Deep Learning Algorithms for Assisting Disabled Individuals. International Conference on Recent

Advances in Artificial Intelligence & Smart Applications (RAAISA) 2024. Springer (Communicated+Accepted+14-15 December, 2024).
- Das, S Empowering Edge-Enabled resource-efficient collaborative deep learning over B5G/6G networks, CRC PRESS, Taylor and Francis group Book Title " The Intersection of 6G, Machine Learning, and Embedded systems : Pioneering Intelligent Wireless Technologies (Inpress).
- Das,S, Predictive Analytics and Performance Optimization in Mobile Networks using Machine Learning, IEEE Conference (Accepted+12-14th December, 2024)
- Shiplu Das, Debdutta Pal, Debojyoti Bhuinya, Gargi Chakraborty, Panchami Das, Ayan Chatterjee, Quantum Convolutional Neural Networks for Enhanced Crop Disease Detection and Management: A Step Towards Intelligent Farming Systems.Springer   (AMLAN Communicated+Accepted+17-19th January,2024)

Journal:
- Das S, Sarkar B, Das A, "Efficient Masked and Unmasked face detection technique using Deep Learning" in International Conference on Current Research in Engineering and Technology (ICCRET21) ISSN: 2582-659X pp. 43-47, Vol. 3,
- Das S, Pal P, Saha J," Challenges and Application of Masked and Unmasked face recognition using FaceNet" in International Conference on Current Research in Engineering and Technology (ICCRET21) ISSN: 2582-659X pp. 25-30, Vol. 3,
- Bhattacharjee A, Das S, Adaptation of Technology Driven Methods of Teaching-Learning Practices under the Purview of Pandemic and Assessing its Implications on the Education System as a Whole on "An International Multidisciplinary Online Journal" ISSN: 2583-1380 Vol. 2, July 2022.
- Digital Literacy: Integrating a New Pedagogical Approach with the Traditional Models of Child Education", IJNRD - INTERNATIONAL JOURNAL OF NOVEL RESEARCH AND DEVELOPMENT (www.IJNRD.org), ISSN:2456-4184, Vol.9, Issue 2, page no.c213-c216, February-2024, Available: https://ijnrd.org/papers/IJNRD2402225.pdf
- Das, S., Pratihar, S., Pradhan, B., Jhaveri, R. H., & Benedetto, F. (2024). IoT-Assisted Automatic Driver Drowsiness Detection through Facial Movement Analysis Using Deep Learning and a U-Net-Based Architecture. Information, 15(1), 30. (ESCI)
- Pradhan, B., Das, S., Roy, D. S., Routray, S., Benedetto, F., & Jhaveri, R. H. (2023). An AI-assisted smart healthcare system using 5G communication. IEEE Access. (ESCI)
- A Multi-objective Optimization Scheme for Coordinated Movement of Multiple Mobile Robots. IEEE Access. 2024 (Communicated)
- Das et al. Predictive Analytics and Performance Optimization in Mobile Networks using Machine Learning. Multimedia Tools and Applications. 2024 (Communicated)
- Das, S., Pratihar, S., & Pradhan, B. (2024). Advanced deep learning models for automatic detection of driver's facial expressions, movements, and alertness in varied lighting conditions: a comparative analysis. *Multimedia Tools and Applications*, 1-37.
- Shiplu Das, Subhagata Chattopadhyay and Buddhadeb Pradhan, A Novel Approach to the Weighted Sign-Symptoms of Dengue Cases using Machine Learning Algorithms. (Communicated)
- Shiplu Das, Abhishikta Bhattacharjee, Arunima Ghosh, Sagnik Das, Buddhadeb Pradhan Privacy-Preserving Predictive Modeling for Early Identification of Developmental Disorders in Children Using Data Mining, and Encryption. (Communicated)
- Shiplu Das, Abhishikta Bhattacharjee, Buddhadeb Pradhan,Sumouli Pal, Sayani Adak, An Extensive Framework for AI-driven Facial Recognition in Challenging Conditions, Activated by Motion (Communicated)

Patent:
- "AN AI BASED METHOD TO DETECT DIFFERENT SKIN PHENOTYPES AND MOISTURE LEVELS" at Intellectual Property of India, Govt. of India, November,2022, (Application No: 202331022410A)
- "A SELF-CONTROLLED UAV BASED FOREST FIRE DETECTION SYSTEM" at Intellectual Property of India, Govt. November,2023 (Application No:202231068125A)
- A LEGAL CHATBOT USING NATURAL LANGUAGE PROCESSING AND METHOD THEREOF at Intellectual Property of India, Govt. of India, July ,2023, (Application No: No.202331049760 A)

- A SMART SOIL MOISTURE SENSOR AND WATERING SYSTEM FOR SMART AGRICULTURE AND METHOD THEREOF Intellectual Property of India, Govt. of India, July,2023, (Application No: No.202331049755 A)

Departmental Project:

Developed and published Painmate App (2022) (Published in Play store) at Brainware University

Conferences & Seminar Attended

- International Engineering Educator Pre-Certification Workshop IUCEE in 2016.
- International Webinar on "Emerging Trends in Computer Science and Information Technology "organized by Vaugh Institute of Agricultural Engineering & Technology (VIAET) on July,2020
- National Workshop on 'Mission critical Network' by the Department of Computer Science & Engineering, Jadavpur University in 2019.
- International Webinar Sponsored by BounceBack Academy with Topic on 'Blockchain' Certification in Education June, 2020. Organized by University of NICOSIA
- International Webinar on "Emerging Trends in AI and Data Science" conducted by Gandhi Engineering College, Bhubaneswar on 07th July 2020
- 2 days International Webinar Course in Artificial Intelligence and Image Processing Using MATLAB July,2020 Organized by EGS Pillay Engineering College.
- International Webinar on Information Security Opportunities and Challenges on June 2020 Organized by Auro University.
- International Webinar on "Artificial Intelligence" organized by Foursteps Training Solutions, Chennai on 05-07-2020
- International Webinar on Block Chain Technology conducted by Dr. Anand Nayyar, Researcher and Scientist, Duy Tan University, Da Nang, Viet Nam, organized by Department of Computer Science & Engineering, Faculty of Engineering & Technology Kalaburagi on 07th July 2020.
- National WEBINAR on " THE FUTURE SOCIETY - AN Internet of Things & Artificial Intelligence REALM " on 06.07.2020 organized by JEPPIAAR Engineering College.
- National Webinar on Machine Learning and Its Application organized by VSM's Somashekhar R. Kothiwale Institute of Technology, Nipani
- National webinar on the role of Artificial Intelligence in COVID19 Diagnosis and Cure addressed by revered researcher Dr. Arun Jamkar MS, Ph.D., FICS, FMAS, FLAGES, FAIMER Fellow, Ex Vice-Chancellor of MUHS, Nashik organized by Alamuri Ratnamala Institute of Engineering and Technology
- Two days' international webinar organized by Department of Computer Science, Baba Farid College, Bathinda Held through the Microsoft Teams on 7th July – 8th July, 2020
- National webinar on "APPLICATION OF CLOUD COMPUTING IN IOT" Organized by IITM Janakpuri, Delhi on 9th July 2020
- National webinar session entitled "Reaching the Unreached: Engaging Communities Through Effective Use of Social Media", delivered by Dr. Partha Sarathi Das, Assistant Library and Information Officer, National Library of India, Ministry of Culture, Govt. of India, organized by Central Library and Dept. of IQAC, Brainware University on July 11, 2020.
- National webinar on QUANTUM COMPUTING: A PARADIGM SHIFT organized by Department of Computer Science, Acharya Prafulla Chandra College in collaboration with its Internal Quality Assurance Cell.
- International Webinar on BLOCKCHAIN, Organized by the Department of Computer Applications, Holy Cross College of Management and Technology, Idukki, Kerala, India on 26/08/2020.
- National Webinar organized by Department of Mathematics, Kalinga University Naya Raipur Chhattisgarh INDIA on 10th December 2020 by Kalinga University
- National workshop on Nano-electronic Devices and their Applications, during 23 – 25 March, 2021 organized by IIIT Kalyani
- International Conference on Current Research in Engineering and Technology (ICCRET-22), Brainware University, India from 25th November to 26th November,2022.
- National Technical Seminar on "JAVA SCRIPT and Its Implementation in Industry including Angular & React, Brainware University, India on 30th November,2022.

- 2nd International Conference on Innovation in Data Analytics, Springer, 29th-30th Nov, 2023 Eminent College of Management and Technology, Kolkata.
- International Conference on Artificial Intelligence and Sustainable Computing 2024. Springer Nature, July 11-13, 2024, BP Poddar Institute of Management and Technology, Kolkata.

Personal Details:

Date of Birth: 30th December, 1991
Languages Known: English, Hindi and Bengali.
Permanent Address: Girish Ghosh Road By lane, PO-Nabapally, PS-Barasat, KOL -700126
Current Address: 4F, Block A, Bhabani Allen Enclave,Ghosh Para, Kestopur,Kol-700102

Shiplu Das

Place: Kolkata