

Name of the Faculty: Shreya Adhikary

Designation: Assistant Professor

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No. of Publication: 33

**Journal Publication:**

Type of Journal	DOI No.	Name of the Article	Name of the Author	ISSN No.	Year of Publication

**Book Chapter Publication:**

DOI No.	Name of the Article	Name of the Author	ISBN No.	Year of Publication
	New Developments in Electronics	Shreya Adhikary	978-93-6039-440-0	2023
	RTL Optimized ALU Using Hybrid Adder Logic	Shreya Adhikary	978-93-5834-625-1	2024
	Automated Detection and Classification of Mass Calcifications in Breast Cancer Mammograms using Image Processing Techniques	Shreya Adhikary	978-93-6233-761-0	2024
	Smart Traffic Management System for Urban Mobility Optimization Using IoT and Decentralized Algorithms	Shreya Adhikary	978-93-6233-525-8	2024
	Advancements and Applications of IoT-Based Smart Traffic Control Systems: A Comprehensive Review	Shreya Adhikary	978-93-6233-525-8	2024
	Lung Condition Prediction using Machine Learning after COVID-19: A Review	Shreya Adhikary	978-93-6233-525-8	2024
	Non-Invasive Glucose Monitoring:	Shreya Adhikary	978-93-6233-525-8	2024

	A Comprehensive Review			
	A Survey on Raspberry Pi-Based Applications and Future Directions	Shreya Adhikary	978-93-6233-525-8	2024
	Design, Analysis and Optimization of Switched-Mode Power Supplies for Efficient Power Conversion	Shreya Adhikary	978-93-6233-525-8	2024
	Development of AI-Driven Image Processing in the Medical Field	Shreya Adhikary	978-93-6233-525-8	2024
	Prediction of Kidney Disease using Machine Learning Algorithms: A Systematic Review	Shreya Adhikary	978-93-6233-525-8	2024
	Review on Image Processing in Breast Cancer Detection: Techniques, Applications and Advancements	Shreya Adhikary	978-93-6233-525-8	2024
	Predicting congestive heart disease using machine learning algorithms on dual dataset	Shreya Adhikary	978-10-3298-036-2	2024
	Determination of the quality of irrigation water by Fuzzy: Logic based system in irrigation	Shreya Adhikary	978-10-3298-036-2	2024

## Conferences

1. **Shreya Adhikary**, Debasis Mondal, Electrical studies of single mammalian cell: A review, 2nd International Conference on Integrative Science and Engineering (ICISE),2024, Swami Vivekananda University, Barrackpore
2. **Shreya Adhikary**, Debasis Mondal, Machine learning based lung condition monitoring of covid patient, 2nd International Conference on Integrative Science and Engineering (ICISE),2024, Swami Vivekananda University, Barrackpore
3. Raja Debnath, Debasis Mondal, **Shreya Adhikary**, Smart Traffic Management System for Urban Mobility Optimization Using IoT and Decentralized Algorithms, 2nd International Conference on Integrative Science and Engineering (ICISE),2024, Swami Vivekananda University, Barrackpore
4. Debasis Mondal, **Shreya Adhikary**, Enhancing Oral Cancer Diagnosis through Machine Learning: ROI Selection and Classification of Microscopic Images, 2nd International

- Conference on Integrative Science and Engineering (ICISE),2024, Swami Vivekananda University, Barrackpore
5. Debasis Mondal, **Shreya Adhikary**, Machine Learning for Automated Detection and Classification of Mass Calcifications in Mammography, 2nd International Conference on Integrative Science and Engineering (ICISE),2024, Swami Vivekananda University, Barrackpore
  6. Arijit Das, Debasis Mondal, **Shreya Adhikary**, Design, Analysis, and Optimization of Switched-Mode Power Supplies for Efficient Power Conversion, 2nd International Conference on Integrative Science and Engineering (ICISE),2024, Swami Vivekananda University, Barrackpore
  7. Tomal Suvro Sannyashi, **Shreya Adhikary**, Debasis Mondal, An Indication of Signal Processing Methods for Communication and Radar Sensing, 2nd International Conference on Integrative Science and Engineering (ICISE),2024, Swami Vivekananda University, Barrackpore
  8. Shayeri Das, Tomal Suvro Sannyasi, **Shreya Adhikary**, Debasis Mondal, Corporate Social Responsibility- An Overview, 2nd International Conference on Integrative Science and Engineering (ICISE),2024, Swami Vivekananda University, Barrackpore
  9. **Shreya Adhikary**, Debasis Mondal, Tomal Suvro Sannyashi, 5G Technology in Healthcare: A detailed Survey, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore.
  10. Debasis Mondal, **Shreya Adhikary**, Tomal Suvro Sannyashi, IoT- Based Health Care Monitoring For Marginalized People, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
  11. Debasis Mondal, **Shreya Adhikary**, Tomal Suvro Sannyashi, Electrical Characterization of Mammalian Cells in Real-time: A Comprehensive Review, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
  12. Shayeri Das, Tomal Suvro Sannyashi, Debasis Mondal, **Shreya Adhikary**, Prabhat Ranjan, Tanmoy Chakraborty, Computational study of FeAsn (n=1-4) clusters invoking DFT based descriptors, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
  13. Tomal Suvro Sannyashi, Debasis Mondal, **Shreya Adhikary**, Advances and Innovations in Heart Disease Detection: A Detailed Survey, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
  14. **Shreya Adhikary**, Debasis Mondal, Tomal Suvro Sannyashi, Automated Detection and Classification of Mass Calcifications in Breast Cancer Mammograms using Image Processing Techniques, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
  15. Rupam Ray Chaudhuri, Bidisha Mitra, Debasis Mondal, **Shreya Adhikary**, Congestive Heart Disease Prediction by using various Machine Learning Algorithms on two Dataset, International Conference on Integrative Science and Engineering (ICISE) 2023, Swami Vivekananda University, Barrackpore
  16. Nirmalya Samanta, Paulami Nayek, Kakali Senguta, Arup Ratan Biswas, **Shreya Adhikary**, Debasis Mondal, Determination of the quality of irrigation water by Fuzzy Logic based system in irrigation, International Conference on Integrative Science and Engineering (ICISE) 2023, Swami Vivekananda University, Barrackpore
  17. Priyanshi Das, **Shreya Adhikary**, Tomal Suvro Sannyashi, Debasis Mondal, Optical Imaging for Cancer Detection through Machine Learning Approaches, International Conference on Integrative Science and Engineering (ICISE) 2023, Swami Vivekananda University, Barrackpore

18. Arnab Karmakar, Dipendu Mondal, Debasis Mondal, **Shreya Adhikary**, Future Smart Kitchen: A Modern Comfortable Packaging, International Conference on Integrative Science and Engineering (ICISE) 2023, Swami Vivekananda University, Barrackpore

**Other Publication Details (if any)**

**Patent:** Identification of Noise Pollution Prone Regions in Mumbai Using Expectation-Maximization Clustering Technique, Published on 25/03/2022, file number 2020-22 101-106, Patent Number: 20 2022 101 216 (German)