

Faculty Profile



Name: Dr. Sudeshna Sani

Designation: Assistant Professor

Teaching Areas: Computer Programming, Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Data Analytics, Web Development.

Research Interests: Neural Network, Natural Language Processing, Low Resource Language Machine Translation, Image Processing.

Education:

- PhD (Pursuing), KL University, Vijayawada, 2022
- M. Tech (CSE), WBUT, West Bengal, 2019
- AMIE (CSE), IEL, Kolkata, 2017
- Diploma in CST, Calcutta Technical School, Kolkata, 2005

Research / Selected Publications:

1. Sani, Sudeshna, Samudra Vijaya, and Suryakanth V Gangashetty. "A Survey on the MT Methods for Indian Languages: MT Challenges, Availability, and Production of Parallel Corpora, Government Policies and Research Directions." *International Journal of Computing and Digital Systems* 15.1 (2024): 1513-1525. DOI: [10.12785/ijcds/1501107](https://doi.org/10.12785/ijcds/1501107)
2. Sani, S., Bera, A., Mitra, D., & Das, K. M. (2022). COVID-19 Detection Using Chest X-Ray Images Based on Deep Learning. *International Journal of Software Science and Computational Intelligence (IJSSCI)*, 14(1), 1-12. <http://doi.org/10.4018/IJSSCI.312556>
3. D. Mitra and S. Gupta, "Plant Disease Identification and its Solution using Machine Learning," 2022 3rd International Conference on Intelligent Engineering and Management (ICIEM), London, United Kingdom, 2022, pp. 152-157, doi: 10.1109/ICIEM54221.2022.9853136
4. Detection of Polarity in the Native-Language Comments of Social Media Networks, Book Chapter, Artificial Intelligence and Knowledge Processing (AIKP'2022). DOI: 10.1201/9781003328414-22.

PATENTS:

1. **Title of Invention:** "A System For Analyzing Mineral And Gas Production Using Machine Learning / Ai Interfaces". **Application No.-202111013152; Published on 02/04/2021.**
2. **Title of Invention:** "Multimedia Management device for Television". A system of content filtering using Federated Learning. **Application Number: 202441071001; Published on 04/10/2024**
3. **Title of Invention:** "Hybrid Neural Machine Translation System Utilizing TF-IDF Weighting for Enhanced Semantic Accuracy. **Application Number: 202541037564; Published on 05/05/2025**