

Name: Madhura Das Gupta

Department: Statistics

Designation: Assistant Professor

Qualification: M.Sc.

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Teaching Experience: 10 years of experience in Undergraduate teaching.

Specialization: Survival Analysis

Publication:

1. Jain R., Saha A., Bhattacharya D., Das Gupta M., Chowdhury S., Daga G, Roychowdhury S., Gender-Based Comparative Study of Type 2 Diabetes Risk Factors in Kolkata, India: Frequentist versus Bayesian Approach in Machine Learning; EPJ Web Conf., Volume 325, 2025, International Conference on Advanced Physics for Sustainable Future: Innovations and Solutions.
2. Sen S., Bhattacharya D., Das Gupta M., Jain R., Identifying Key Predictors of Type 2 Diabetes through Bayesian Variable Selection: A Cross-Sectional Study with Gender-Specific Insights; Accepted for publication as a conference proceeding in the ICDMAI2025(9th International Conference on Data Management, Analytics & Innovation).
3. Lifestyle, BMI, Age, and Waist-To-Height Ratio As Indicators For Type 2 Diabetes Mellitus: A Gender-Based Comparative Study In Kolkata, West Bengal, India. Asian Journal of Statistical Sciences, Year: ISSN: 2582-9912; 2023, Vol.3 (2), PP.169-176; Publication: April 2024.

Participation in workshop:

- (i) Participated in a 2 1/2-day "'Workshop on modelling the public health impact of enteric and respiratory vaccines", from 9th - 11th January, 2025, NDMC, IIT Bombay.
- (ii) Participated in a 4-day 'Measles and Rubella Transmission Modelling Workshop' from 5th - 8th February, 2024, NDMC, IIT Bombay.
- (iii) Participated in the IBM SkillsBuild for Academia Virtual Train-the Trainer (T3) Workshop for Data Science in January, 2024.
- (iv) Participated in Weekend Online Program on Statistical Machine Learning organised by Centre for Artificial Intelligence and Machine Learning (CAIML), ISI, Kolkata in March, 2021.

Resource Person

Resource person at the Workshop on "Big Data Through Bayesian And Non-Bayesian Lenses" [6th Feb-7th Feb 2025] Organized by Interdisciplinary Statistical Research Unit (ISRU), Kolkata.

Paper Presentation:

- (i) presented a paper entitled "Estimating the hazard functions of alternately occurring recurrent events under interval censoring" at ELEVENTH INTERNATIONAL CALCUTTA TRIENNIAL SYMPOSIUM On Probability and Statistics By DEPARTMENT OF STATISTICS, UNIVERSITY OF CALCUTTA & CALCUTTA STATISTICAL ASSOCIATION, DECEMBER 27-30, 2024

- (ii) Presented a paper entitled “Gender-Based Comparative Study of Type 2 Diabetes Risk Factors in Kolkata, India: A Machine Learning Approach” at TWO DAY INTERNATIONAL CONFERENCE on MODERN STATISTICS FOR RECENT DEVELOPMENTS DATA SCIENCE TECHNIQUES (ICMSRDDST-2024) in Department of Statistics, Sri Venkateswara University, Tirupati, India on 16th February, 2024.
- (iii) Presented a paper on “Lifestyle, BMI and Waist-to-Height Ratio as Indicators for Type 2 Diabetes Mellitus: A Gender Based Comparative Study on Case-Control Diabetes Data in Kolkata, India.” at Sixth International Webinar on RECENT TRENDS IN STATISTICAL THEORY AND APPLICATIONS-2022 (WSTA-2022) in conjunction with Fifth Annual Convention of Statistics Fraternity Kerala (SFK) Indian Society for Probability and Statistics (ISPS), Kerala Statistical Association (KSA) & Department of Statistics, School of Physical and Mathematical Sciences University of Kerala, Trivandrum, India on 2nd July, 2022.