



**Name: Dr. Priyanka Talukdar**

**Designation: Assistant Professor in Statistics**

**Qualifications: M. Sc., Ph.D. in Statistics**

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### **Biographical Sketch**

Dr. Priyanka Talukdar is working as an Assistant Professor in Statistics under the Faculty of Science. She joined St. Xavier's University, Kolkata as an Assistant Professor in July, 2022. She earned her Ph.D. degree in Statistics from Assam (Central) University, Silchar, Assam. She completed her Master's degree in Statistics with specialization in Actuarial Science from Gauhati University, Guwahati, Assam. She graduated with Major in Statistics from Assam (Central) University, earning the prestigious First Class First position.

Her academic career is marked by more than eight years of integrated experience spanning teaching, research, quantitative modelling, statistical programming, and seminar-led academic engagements. Dr. Talukdar's teaching portfolio includes courses in Actuarial Science, Multivariate Analysis, Regression Analysis, Time Series Analysis, Descriptive Statistics and Probability Theory, Statistical Inference, Statistical Quality Management, Business Analytics, Business Mathematics and Statistics, R-programming, SPSS and Spreadsheets reflecting her breadth of expertise and her commitment to nurturing students' analytical capacities. Her research has appeared in esteemed international journals. She has presented her papers delivered invited talks at leading national and international conferences including the **Maths Sports Asia 2024** at IIM Udaipur, **International Conference on Emerging Trends of Statistical Sciences in AI and Its Applications (ETSSAA)** at Banasthali Vidyapith, International Conference on **Math Sport Asia 2018** at XLRI Jamshedpur, etc. where her contributions to sports analytics have been widely noted. Beyond her publications, Dr. Talukdar has undergone extensive training at premier institutions over thirty specialised training programmes, faculty induction programme (FIP), faculty development programmes (FDP), workshops in computational statistics, research methodology, programming languages and advanced data analytics. She was selected for attending the HOD's Training Programme on **Official Statistics** organised by **Ministry of Statistics and Programme Implementation (MOSPI)** at **National Statistical**

**Systems Training Academy (NSSTA) at New Delhi** and successfully completed the certification. Her professional memberships include **Life Membership** of **Calcutta Statistical Association (CSA)**, **Indian Association for Productivity, Quality and Reliability (IAPQR)** and **Society of Statistics, Computer and Applications (SSCA)**. Driven by an intellectual curiosity that blends theoretical insight with practical relevance, Dr. Priyanka Talukdar envisions expanding the frontier of quantitative sports analysis while contributing to broader interdisciplinary research.

### **Areas of Specialisation and Research**

- Statistical Modelling
- Statistical Data Analysis
- Sports Analytics
- Applied Multivariate Analysis
- Actuarial Science
- Mathematical Statistics
- Computational Statistics
- Time Series Analysis
- Exploratory Analysis
- Supervised Learning
- Predictive Analytics

### **Teaching Experience**

- Assistant Professor in Statistics, Faculty of Commerce and Management (Morning section), St. Xavier's University, Kolkata.
- Faculty in Statistics, Karimganj College, Karimganj, Sribhumi, Assam- 788710, India.
- Faculty in Statistics, Icon Commerce College, Guwahati - 781003, Assam, India.

### **Administrative Responsibility**

- Departmental Placement Coordinator for Statistics, Faculty of Science, St. Xavier's University, Kolkata
- Internship Coordinator, Faculty of Science, St. Xavier's University, Kolkata
- Member, Board of Studies of Department of Statistics, St. Xavier's University, Kolkata
- Mentor, M.Sc. Statistics, (July 2025 – December 2025), St. Xavier's University, Kolkata
- Research Advisory Committee member for two students from Ph.D. Social Work Department.
- Magazine Committee Editor, St. Xavier's University, Kolkata.
- Website Coordinator, Department of Statistics, St. Xavier's University, Kolkata

- Mentor, M.Sc. Statistics, (January, 2025 –June, 2025), St. Xavier’s University, Kolkata

## Publications

- Talukdar, P. (2025). Invisible lives: The crisis of female foeticide and infanticide in India. *IOSR Journal of Humanities and Social Science (IOSR-JHSS)*, Vol 30 (5, Series 4), 40–43. DOI:10.9790/0837-3005044043
- Talukdar, P. (2024). Cricket’s analytical revolution: Exploring the cutting edge of data-driven insights. *IOSR journal of sports and physical education*, 11(2), 14-22.
- Talukdar, P. (2024). Pressure index: A new performance indicator in sports analytics. *Swadeshi research foundation a monthly journal of multidisciplinary research*, 11(6), 70-75.
- Talukdar P. (2020). Investigating the Role of Opening Partners While Chasing on the Outcome of Twenty20 Cricket Matches. *Management and Labour Studies*, Volume 45(2), 222-232. (**SCOPUS** IF 0.9) DOI:10.1177/0258042X20912580
- Bhattacharjee, D., and Talukdar, P. (2019). Predicting outcome of matches using pressure index: evidence from Twenty20 cricket. *Communications in Statistics - Simulation and Computation*, Volume 49(1), 3028-3040, ISSN: 0361-0918 (Print), 1532-4141 (Online) (**SCOPUS** IF 1.7) DOI: 10.1080/03610918.2018.1532003
- Talukdar, P., & Bhattacharjee, D. (2018). Identifying the most resilient Bangladesh cricket team during run chase in One-Day Internationals. *International Journal of Statistical Sciences*, Volume 16, 19-34, ISSN 1683-5603.

## Papers presented in Seminars/ Conferences

- Talukdar, P. (2024). Importance of Setting a Target in Limited Overs Cricket, International Conference entitled “Math Sports Asia 2024” organized by Math Sports Asia and IIM Udaipur, December, 2024.
- Talukdar, P. and Bhattacharjee, D. (2020). Identifying the Death Over Skills of Bowlers in Twenty20 Cricket, Two-Day National Webinar on “Recent Advances in Theoretical and Applied Statistics” organized by Department of Statistics, Assam University, Silchar, November, 2020.
- Talukdar, P. and Bhattacharjee, D. (2019). Identifying the Most Resilient Team During Run Chase: Evidence from Twenty20 Cricket, National Seminar on “Statistics for People, Society and Economy” organized by Department of Statistics, Gauhati University, Guwahati, February, 2019.

- Bhattacharjee, D. and Talukdar, P. (2018). Predicting Outcome of Matches using Pressure Index: Evidence from Twenty20 Cricket, UGC-Sponsored National Seminar on “Recent Trends in Theoretical and Applied Statistics-III” organized by Department of Statistics, Dibrugarh University, Dibrugarh, March, 2018.
- Talukdar, P. and Bhattacharjee, D. (2018). An Investigation of the Role of Opening Partners on the Outcome of Twenty20 Cricket matches through Pressure Index, International Conference on “Math Sport Asia 2018” organized by XLRI Jamshedpur, December, 2018.