

# Debayan Koley

PHD STUDENT · DEPARTMENT OF STATISTICS

Banaras Hindu University, Varanasi, UP-221005, India

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## Education

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### Banaras Hindu University

Varanasi, UP

PHD STATISTICS

December 2021 - present

- Advisor: Dr. Abhimanyu Singh Yadav
- Research area: Statistical inference, censoring techniques, reliability theory and survival analysis

### Visva-Bharati University

Santiniketan, Birbhum, WB

MSC STATISTICS (7.24 CGPA | 72.4%)

August 2018 - September 2020

- Project advisor: Dr. Soumalya Mukhopadhyay
- Project title: *Understanding Students' Cheating Behaviors in Examinations: A Comparative Study and Analysis using Anonymous Questionnaire and Different Randomized Response Techniques*

### Midnapore College (Autonomous), Vidyasagar University

Midnapore, West Medinipur, WB

BSC (HON.) STATISTICS (76.25%)

July 2015 - May 2018

- Minors in Economics and Mathematics
- Honors project advisor: Dr. Moumita Roy
- Project title: *Study of Relationship between Marital and Employment Status of Women of Different Ages of a Certain Locality*

### Ramakrishna Mission Vidyabhavan, Midnapore

Midnapore, West Medinipur, WB

HIGHER SECONDARY EXAMINATION(89.4%)

July 2013 - May 2015

- West Bengal Council of Higher Secondary Education
- Subjects: Physics, Chemistry, Biology, Mathematics, English, Bengali

### Ramakrishna Mission Vidyabhavan, Midnapore

Midnapore, West Medinipur, WB

SECONDARY EXAMINATION(89.4%)

July 2007 - May 2013

- West Bengal Board of Secondary Education
- Subjects: Mathematics, English, Bengali, Physical science, Life science, History, Geography

## Publications

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\* *corresponding author*

### PUBLISHED

**Abhimanyu Singh Yadav**, Shivanshi Shukla, Neha Jaiswal, Sanjay Kumar Singh, Debayan Koley\*. 2025. Development and Estimation of Weighted Xgamma Exponential Distribution with Applications to Lifetime Data. STATISTICA, 83(4): 247-269.

### ACCEPTED

**Abhimanyu Singh Yadav**, Shivanshi Shukla, Mahendra Saha, Debayan Koley\*, Neha Jaiswal. 2024. On Progressively Type-II Censored Inverse Lomax Distribution: Characterizations, Estimation and Application to Cancer Data. REVSTAT-Statistical Journal.

### IN REVIEW

Some Characterizations of Log-Cauchy Distribution and Its Inferential Exploration Under Progressive First-failure Censoring Scheme.

Statistical Inferences for the Generalized Rayleigh Distribution under an Adaptive Progressive First-failure Censoring Scheme.

## Awards, Fellowships, & Grants

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2024	<b>International Travel Support</b> , IoE - Banaras Hindu University	Rs. 25,000
2022	<b>Best Paper Presentation Award</b> , National workshop-cum-seminar, ETSAS 2022, University of Lucknow	
2015 - 2020	<b>INSPIRE Scholarship for Higher Education</b> , Department of Science and Technology, Government of India	

## Presentations

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\* *presenting author*

### CONTRIBUTED PRESENTATIONS

**Abhimanyu Singh Yadav**, Shivanshi Shukla, Debayan Koley\*. 2022. Parametric Inference of Weighted Xgamma Exponential Distribution Under Progressive Type -II Censoring Scheme with Application to Lifetime Data. Oral presentation: National workshop-cum-seminar (ETSAS 2022), Lucknow University, Lucknow, UP.

**Abhimanyu Singh Yadav**, Debayan Koley\*. 2023. On progressively first-failure censored generalized Rayleigh with binomial removals: Application to Nigerian Breast Cancer Data. 2023. Oral presentation: International conference (SSCA - SSSES 2023), Jammu university, Jammu.

**Debayan Koley\***. 2023. On progressively first-failure censored logistic exponential distribution with beta-binomial removals. Oral presentation: National workshop/conference (IASTRM), H.N.B. Garhwal university, Srinagar Garhwal, Uttarakhand.

**Debayan Koley\***, Abhimanyu Singh Yadav. 2024. Statistical Inferences for the Generalized Rayleigh Distribution under an Adaptive Progressive First-failure Censoring Scheme. Oral presentation: Second International Conference on Mathematics and Applications (ICMA - 2024), Nepal Mathematical Society, Kathmandu, Nepal.

**Debayan Koley\***, Abhimanyu Singh Yadav. 2024. Some Characterizations of a Super Heavy-tailed Distribution and Its Application in Modeling Progressively First-failure Censored Data. Poster presentation: International Workshop on Reliability Theory and Survival Analysis (IWRTSA - 2024), DST-CIMS & Department of Statistics, Banaras Hindu University, Varanasi.

**Debayan Koley\***, Abhimanyu Singh Yadav. 2024. Some Characterizations of a Pathological Distribution as a Lifetime Model and Inferential Exploration under Progressive First-failure Censoring Scheme. Oral presentation: ELEVENTH INTERNATIONAL CALCUTTA TRIENNIAL SYMPOSIUM On Probability and Statistics, University of Calcutta, Calcutta.

**Debayan Koley\***, Abhimanyu Singh Yadav. 2025. Statistical Inferences for Log-Cauchy Distribution under Progressive First-failure Censoring Scheme. Poster presentation: National Seminar on Methodological Challenges and Terminological Issues in the Application of Statistics (NSMCTIAS - 2025), Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi.

## Teaching Experience

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09.08.2023

- **Probability and Statistics**, B.Voc. Computer Application

29.01.2024

DST-CIMS,  
Banaras  
Hindu  
University

## Outreach & Professional Development

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### DEVELOPMENT

**High-End workshop (KARYASHALA) on Advanced Statistical and Machine Learning Models sponsored by SERB, Govt of India and organized by Department of Electronics Engineering, IIT(BHU) from 22-28 august, 2022**

This workshop covered the theoretical and applied aspects of various statistical and machine learning models in broad areas of IoT and healthcare. This workshop polished my technical concepts on convex optimization problems and different machine learning prerequisites, which I have rigorously used in my professional work.

## DIPLOMA CERTIFICATES

Diploma in Information Technology Application (DITA)

Duration: 12 months

Certificate issuance date: 21/02/2017

Organization: Youth Computer Training Centre, Government of West Bengal

## PEER REVIEW

- Computational Statistics
- Quality Technology and Quantitative Management

## PROFESSIONAL MEMBERSHIPS

e-student membership of Royal Statistical Society

Student membership of Institute of Mathematical Statistics

Student membership of International Indian Statistical Association

## Additional informations \_\_\_\_\_

## TECHNICAL SKILLS

- $\text{\LaTeX}$
- R Studio
- R Shiny
- R Package Development
- MS Office
- SPSS

## LANGUAGE

Bengali : Native proficiency

English : Professional working proficiency in reading, writing and speaking

Hindi : Elementary proficiency in reading and writing, professional working proficiency in speaking

## REFERENCES

1. Prof. Sudhansu Sekhar Maiti (Professor and Head), Department of Statistics, Visva-Bharati University, Bolpur Santiniketan - 731235.  
Mail: sudhansu.maiti@gmail.com, Phone: +918918330348
2. Dr. Abhimanyu Singh Yadav (Assistant Professor), Department of Statistics, Banaras Hindu University, Varanasi - 221005.  
Mail: abhistats@bhu.ac.in, Phone: +919506395612
3. Bikram Mahapatra (Associate Scientist-A), Sampling and Official Statistics Unit, Indian Statistical Institute, Kolkata - 700108.  
Mail: bikramm@isical.ac.in, Phone: +917872720122