

# SHRIKRISHNA BHAT K MSc, (PhD)

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## PROFESSIONAL SUMMARY

PhD candidate in Statistics with over 6 years of extensive experience in advanced statistical modeling, survey analytics, and socio-economic data research. Expert in cluster analysis, probabilistic distance methods, and data diagnostics, with a strong record of applied research impacting public policy and planning. Skilled in leveraging tools such as R, STATA, Python, and specialized R packages to ensure robust data quality, reproducibility, and insightful analysis. Proven ability to lead large-scale survey projects, deliver consultancy for urban housing demand assessments, and contribute to academic knowledge with peer-reviewed publications and presentations at international conferences. Adept at transforming raw data into actionable insights that inform decision-making in government and social equity contexts.

## EDUCATION

### PhD in Statistics

*Research Area: Cluster Analysis, Block Clustering, and Cluster diagnostics*

Pondicherry University

*Feb 2021 – Present*

- Research Supervisor: Dr. Kiruthika

### Master of Science in Statistics

*CGPA: 7.75/10*

Pondicherry University

*Jul 2016 – Apr 2018*

### Bachelor of Science in Mathematics, Statistics, and Physics

*Percentage: 80.31%*

Andhra Loyola College

*Jul 2013 – Apr 2016*

## EXPERIENCE

### Cushman and Wakefield

*Senior Statistician*

Chennai

*May 7, 2025 – Jun 30, 2025*

- Study of Demand and Supply Pattern of Housing in Chennai Metropolitan Area for Chennai Third Master Plan - 2046

### Centre for Social Justice and Equity, Madras School of Social Work

*Data Analyst - Socio Economic Survey of Scheduled Tribes in Tamil Nadu*

Chennai

*Sep 7, 2024 – Dec 31, 2024*

### Madras Institute of Development Studies

*Consultant - Tamil Nadu Household Panel Survey*

Chennai

*Statistical Data Analyst - Tamil Nadu Household Panel Survey*

*Aug 23, 2022 – Aug 24, 2024*

*Feb 21, 2019 – Mar 31, 2021*

### Core CarbonX Solutions Pvt. Ltd.

*Associate Consultant*

Hyderabad

*Jun 10, 2018 – Feb 15, 2019*

## SKILLS AND LANGUAGES

### Programming Languages

R · Python

### Statistical Tools

STATA · SPSS · Minitab

### Data Tools

MS Excel · SQL · Power BI · Tableau 

### Version Control

GitHub

### Other Tools

L<sup>A</sup>T<sub>E</sub>X · SurveyCTO · MS Office

### Languages Known

English (Fluent) · Kannada (Native) · Telugu (Native) · Hindi (Fluent) · Tulu (Native) · Tamil (Basic)

## PUBLICATIONS

1. **Shrikrishna Bhat K** and Kiruthika C. *Block Probabilistic Distance Clustering: A Unified Framework and Evaluation*. Preprint, Version 1. June 25, 2025. DOI: 10.21203/rs.3.rs-6973596/v1. ResearchSquare: rs-6973596/v1.
2. **Shrikrishna Bhat K** and Kiruthika C. “Some density-based silhouette diagnostics for soft clustering algorithms”. In: *Communications in Statistics: Case Studies, Data Analysis and Applications* 10(3–4) (2024), pp. 221–238. DOI: 10.1080/23737484.2024.2408534.

## PACKAGES

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1. **Shrikrishna Bhat K** and Kiruthika C. *blockclusterPDQ: An R Package for Block Probabilistic Distance Clustering*. 2025. GitHub: [kskbhat/blockclusterPDQ](https://github.com/kskbhat/blockclusterPDQ).
2. **Shrikrishna Bhat K** and Kiruthika C. *Silhouette: Proximity Measure Based Diagnostics for Standard, Soft, and Multi-Way Clustering*. R package version 0.9.6. 2025. DOI: [10.32614/CRAN.package.Silhouette](https://doi.org/10.32614/CRAN.package.Silhouette). CRAN: *Silhouette*. URL: <https://kskbhat.github.io/Silhouette>.

## WORKSHOPS AND CONFERENCES

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### Papers Presented

1. "Probabilistic Distance Co-clustering for Ordinal Data". In: *International Conference on Recent Advances of Probability and Statistics in Interdisciplinary Research (RAPSIR-2024) in conjunction with the 43<sup>rd</sup> Annual Convention of ISPS*. Paper presented. University of Allahabad, India, Feb. 6–8, 2024. 
2. "Density-Based Silhouettes to Evaluate the Performance of Soft Clustering Algorithms". In: *International Conference on Statistical Theory and its Applications (ICSTA-2023)*. Virtual paper presentation. Bharathiar University, India, Sept. 1–2, 2023. 
3. "Probability Density-Based Clustering". In: *Annual Conference of International Indian Statistical Association (IISA 2022)*. Paper presented. IISc, Bengaluru, India, Dec. 30, 2022. 

### Posters Presented

1. "Exploring Block Clustering with Probabilistic Distance: Theory and Validation". In: *Annual Conference of International Indian Statistical Association (IISA 2024)*. Student Poster Competition. CUSAT, Cochin, India, Dec. 27–31, 2024. 

### Participated

1. *Pre-Annual Convention Workshop on Advanced Data Science Techniques*. In conjunction with the 43<sup>rd</sup> Annual Convention of ISPS. Participation. University of Allahabad, India, Feb. 5, 2024. 
2. *24<sup>th</sup> Annual Conference of SSCA (RASTA-2022)*. Online event on Recent Advances in Statistical Theory and Applications, ICAR-NAARM, Hyderabad. Participation. Hyderabad, India, Feb. 23–27, 2022. 
3. *International Conference on Advances in Statistical Methods and Applications (ICASMA-2022)*. Organised by the Department of Statistics, University of Madras. Participation. Chennai, India, Jan. 24–25, 2022. 
4. *28<sup>th</sup> International Workshop on Matrices and Statistics (IWMS 2021)*. Hosted by Centre for Advanced Research in Applied Mathematics and Statistics, MAHE, Manipal. Participation. Manipal, India, Dec. 13–15, 2021. 
5. *International Workshop on Data Science (DATUM 2021)*. In association with the International Indian Statistical Association, DA-IICT, Gandhinagar. Participation. Gandhinagar, India, Sept. 18–20, 2021. 

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