

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 – Dec 2025

- Research Supervisor: Dr. Kiruthika
- Thesis Title: *Contributions to Block Clustering and its Diagnostic Measures*
- Thesis Submitted on: Dec 22, 2025

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

Chennai

Senior Statistician

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

Chennai

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

Sep 7, 2024 – Dec 31, 2024

Madras Institute of Development Studies

Chennai

Consultant - *Tamil Nadu Household Panel Survey*

Aug 23, 2022 – Aug 24, 2024

Statistical Data Analyst - *Tamil Nadu Household Panel Survey*

Feb 21, 2019 – Mar 31, 2021

Core CarbonX Solutions Pvt. Ltd.

Hyderabad

Associate Consultant

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

LaTeX · 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 (June 25, 2025a). *Block Probabilistic Distance Clustering: A Unified Framework and Evaluation*. Preprint, Version 1. DOI: 10.21203/rs.3.rs-6973596/v1. ResearchSquare: rs-6973596/v1.

2. **Shrikrishna Bhat K** and Kiruthika C (2024). "Some density-based silhouette diagnostics for soft clustering algorithms". In: *Communications in Statistics: Case Studies, Data Analysis and Applications* 10(3–4), pp. 221–238. DOI: 10.1080/23737484.2024.2408534.

PACKAGES

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

WORKSHOPS AND CONFERENCES

Papers Presented

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

Posters Presented

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

Participated

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