

Dr. PRASHANT VERMA

PhD (Statistics)

Associate Professor

AERU, Institute of Economic Growth (IEG)

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Career Objective

Playing a vital role as an academician in a challenging and dynamic work environment using existing skills and knowledge, where my efforts can add value to the growth of the Institution and, in turn to enhance my knowledge and career. I intend to build a career in a leading institution with committed & and dedicated people, which will help me to explore myself fully and utilize my potential toward academics and society.

Academic Credentials

Sr.	Degree	Year	Subject/Stream	University/Institution
1	Ph.D.	2019	Statistics	Banaras Hindu University (BHU), Varanasi
2	P.G.	2011	Statistics	Banaras Hindu University (BHU), Varanasi
3	U.G.	2009	Statistics, Mathematics, Psychology	PPN College, CSJM University, Kanpur
4	Intermediate	2006	Science	CNSI College, Kanpur
5	Matriculation	2004	Science	CNSI College, Kanpur

Experiences

Sr.	Position held	Name of the Organization	From	To	Nature of Post
1	Associate Professor	Institute of Economic Growth, New Delhi	17/04/2026	Present	Regular
2	Assistant Professor	Department of Statistics, University of Allahabad, Prayagraj	23/05/2022	16/04/2026	Regular
3	Statistician (Spl. Officer)	State Bank of India, Mumbai	11/05/2017	20/05/2022	Regular
4	Junior/Senior Research Fellow	Department of Statistics, Banaras Hindu University, Varanasi	10/04/2013	10/05/2017	Tenure
5	Business Analyst	Tata Consultancy Services, Bangalore	17/08/2011	05/04/2013	Confirmed

Computer/Software Skills

- Sound Knowledge of Statistical packages like **R**, **SPSS Statistics**, **SPSS Modeler**, **JAMOVI**.
- Computer languages like **Python** and **SQL**.
- Two-year diploma course in computer application/programming.

Awards, Fellowships, & Other Achievements

- **Ramanujan Award for Excellence in Research and Development**, by MathTech Thinking Foundation in International Entrepreneurs, Academicians & Researchers Guild (IEARG) awards (2025).
- Awarded as Junior Research Fellow under **BSR (Basic Scientific Research) fellowship**-2013 sponsored by UGC.
- Awarded as **Junior Research Fellow (JRF)** under UGC-NET Fellowship in 2013.
- Awarded as **Senior Research Fellow (SRF)** under UGC-NET Fellowship in 2015.
- Advanced **Machine Learning & Data Science** certification by *Times Professional Learning, Mumbai* (March 2018 to June 2018).
- Completed a course on **Deep Learning** by **NVIDIA laboratory** in association with *Times Professional Learning, Mumbai* (2018).
- Received a **travel award** from the Indian Council of Medical Research (**ICMR**), NEW DELHI, to attend an international conference in **Johannesburg, South Africa (2015)**.
- Received a **travel award** from the Indian Council of Social Science Research (**ICSSR-2018**), NEW DELHI, to attend the **4th Asian Population Conference at Shanghai, China**.
- Received a travel award from the Science and Engineering Research Board (**SERB, DST**), NEW DELHI, to attend the annual conference of the **Population Association of America, PAA-2024**.
- Received a travel award from the Ministry of Statistics & Program Implementation (MoSPI), DELHI, to attend the annual conference of the **Population Association of America, PAA-2025**.
- A certificate of appreciation for serving as an abstract reviewer for the “International Conference on Family Planning, **NUSA DUA, Indonesia - 2015**” organized by the **Johns Hopkins Bloomberg School of Public Health**.
- A certificate of a summer internship at the National Institute of Medical Statistics, **ICMR**, NEW DELHI, 2010.
- Serving as a reviewer for various international journals under **BMC, Taylor & Francis, Springer, Wiley, etc.**

Research Paper Publications

- Dutta, S., Ganguly, T., Sharma, N., Dutta, A., Vij, P., Sharma, A., Verma, P., Som, A., & Das, R. Mutation-driven mechanisms underlying antibiotic resistance of *Helicobacter pylori* in Asia: A systematic review and meta-analysis (2000–2024). *Microbial Pathogenesis* (Elsevier) (2026), 216, 108479. (SCI, H-Index:107)
- Verma, P., Khetan, M., Singh, K.K. et al. A Machine Learning Modeling Approach to Predict Unwanted Pregnancy in India. *Journal of Statistical Theory and Applications* (2026) 25, 17. (ESCI)
- Verma, P., Srivastava, V. & Srivastava, A. Predictive Modeling of Domestic Violence in India: A Machine Learning Perspective. *Journal of Statistical Theory and Applications* (2026) 25,14. (ESCI)
- Singh, P., Verma, P. & Singh, N. “Offline Signature Verification: An Application of GLCM Features in Machine Learning.” *Annals of Data Science (AODS)*; Springer-Verlag GmbH Germany (2021). ISSN: 2198-5812; 2198-5804. (SCI, Scopus, H-Index: 32)

- Verma, P. “Churn Prediction for Savings Bank Customers: A Machine Learning Approach”. *Journal of Statistics Applications & Probability*, Natural Sciences publishing (2020). Vol.9, Iss. 3, ISSN (P): 2090-8423; ISSN 2090-8431. (Scopus, H-Index: 19)
- Dutta, S., Jain, S., Das, K., Verma, P., Som, A., Das, R. “Primary antibiotic resistance of *Helicobacter pylori* in India over the past two decades: A systematic review”. *Helicobacter*. (2024); 29:e13057. ISSN:1083-4389. doi:10.1111/hel.13057. (SCI, H-Index: 90)
- Verma, P., Swain, P.K., Singh, K.K., Khetan, M. “Count Data Regression Modeling: An Application to Spontaneous Abortion”. *Reproductive Health*, Bio-Med Central, Springer Nature 17, 106 (2020), ISSN: 1742-4755, <https://doi.org/10.1186/s12978-020-00955-2>. (SCI, H-Index: 93)
- Verma, P., Singh, K.K., Singh, A. et al. “Population Control under Various Family Planning Schemes in Uttar Pradesh, India”. *Genus*, Springer Open (2019), Vol. 75, No. 08, ISSN: 2035-5556. (SCI, H-Index: 24)
- Verma, P., Singh, K.K. & Singh, A. “Pregnancy Risk during Menstrual Cycle: Misconceptions among Urban Men in India”. *Reproductive Health*, Bio-Med Central, Springer Nature 14, 71 (2017), ISSN: 1742-4755. (SCI, H-Index: 93)
- Jena, D., Swain, P.K., Tripathy, M.R., Verma, P., Sarangi, P.K. “Analysis of Age-Specific Fertility in India: Deterministic and non-deterministic modeling approaches”, *International Journal of Population Studies*, AccScience Publishing, Singapore (2024), 1338. ISSN: 2424-8150. (Scopus)
- Singh, A., Mishra, R., Singh, K.K., Verma, P. “Abortions followed by contraceptive failures in Northern India: an analysis of contraceptive histories (2009–2014)”. *Genus*, Springer Open (2020), Vol. 76, No. 09, ISSN: 2035-5556. <https://doi.org/10.1186/s41118-020-00079-2> (SCI, H-Index: 21)
- Srivastava, U., Singh, A., Verma, P. et al. “The Role of Change in Fertility Desire on Change in Family-planning Use: A Longitudinal Investigation in Urban Uttar-Pradesh, India”. *Gates Open Research*, Bill & Melinda Gates Foundation (2019), 3:1439, ISSN: 2572-4754. (Scopus, H-Index: 22)
- Singh, A., Singh, K.K. & Verma, P. “Knowledge, Attitude and Practice Gap in Family Planning Usage: An Analysis of Selected Cities of Uttar Pradesh”. *Contraception and Reproductive Medicine*, Bio-Med Central, Springer Nature 1, 20 (2016), ISSN: 2055-7426. (SCI, H-Index: 76).
- Singh, K.K. & Verma, P. “An Assessment of Intergenerational Relationship between Youth and Parental Generation”, *Journal of Statistics Applications & Probability*, Natural Sciences publishing, Vol 5, No. 1, 155-164 (2016), ISSN: 2090-8431. (Scopus, H-Index: 15).
- Singh K.K., Verma P, Singh. A. “Female Age at Marriage and Associated Factors in EAG States of India”. *Journal of Advanced Research in Applied Mathematics & Statistics*, 1(2): 53-59 (2016), ISSN: 2455-7021.
- Srivastava, U., Singh, K.K., Verma, P. et al. “Adolescents’ Insight into STDs, HIV/AIDS, and Family Welfare Methods: Current Status and Myths from School-Based Study in Varanasi, India”. *Demography India*, Special Issue (2018), pp: 125-140, ISSN: 0970-454X.
- Chaudhuri, T., Verma, P., Khetan, M. “Modeling and Forecasting of Rice Production in Some Major States of India using ARIMA”. *IJRASET*, Vol 8, Issue XII (2020), ISSN: 2321-9653.

- Khetan, M., Singh, G.N., Verma, P. “Generalized Exponential Methods of Imputation in Estimation of Current Population Mean in Two-Occasion Successive Sampling”. International Journal of Statistics and Economics (2018) Vol 19, Issue 1, 61-83, ISSN: 0975-556X.
- Khetan, M., Singh, G.N., Verma, P. “A Linear Estimation Procedure Using Super Population Model in Two Occasion Successive Sampling under Non-Response”. International Journal of Mathematics and Statistics (2018), Volume 19, Issue Number 1, 41-54, ISSN: 0958-1596.

Books/Chapters Publications

1. **Practical Data Analytics for BFSI: Leveraging Data Science for Driving Decisions in Banking, Financial Services, and Insurance Operations** (2023), Orange Education Pvt Ltd, ISBN: 9789388590907, E-ISBN: 9789388590853. <https://www.amazon.in/Practical-Data-Analytics-BFSI-Leveraging/dp/9388590902>
2. A chapter, “The Axioms of Statistical Inference: Estimation and Hypothesis Testing” has been published in the book “**Essentials of Statistics in Agriculture Sciences**”. Worldwide distributed by **CRC Press (Taylor & Francis Group)**, July 2019, ISBN: 9781771887526.
3. The following 3 chapters were contributed to the book “**Distribution Theory: Principles and Applications**”. Worldwide distributed by **CRC Press (Taylor & Francis Group)**, ISBN: 9781774912140.

Chapter I: Dynamics of Data Analysis and Visualization with Python

Chapter II: Discrete Distributions

Chapter III: Continuous Distributions

Resource Person/Invited Lectures/Session Chair

- Delivered 3 lectures in a hands-on workshop on “Exploratory Data Analysis and Statistical Modeling with R” organized by **ICMR-NIHR, Jodhpur** (Jun 2026)
- Delivered an invited lecture in a webinar on “Essentials of Cyber Hygiene and Contemporary Trends in Cyber Security” organized by **Bhagalpur University (Apr 2026)**.
- Delivered an invited talk on “Applications of Artificial Intelligence and Machine Learning in Banking and Finance” and chaired a special session at the International Conference on Mathematical Sciences and Computational Intelligence (ICMSCI-2026), organized by Department of Mathematics, **P.G.D.A.V. College, University of Delhi**, in association with **Indian Institute of Technology (IIT), Mandi & National Institute of Technology (NIT), Uttarakhand**.
- Delivered two invited lectures, “Decision Trees as Interpretable Supervised Machine Learning Models: Understanding CART” and “Explainable Supervised Learning with Decision Trees: A Python Hands-On” in a workshop organized by the **Department of Mathematics, National Institute of Technology (NIT), Raipur (Jan 2026)**.
- Delivered two invited lectures, “Knowledge Discovery from Data: Machine Learning and Data Mining Perspectives” and “Industry-Oriented Python for Machine Learning & Visual Analytics: Shaping Data Science Careers” in a workshop organized by the **International Institute for Population Sciences (IIPS), Mumbai (Dec 2025)**.

- Delivered 2 lectures in “**Summer Internship Program on Machine Learning & Deep Learning**” organized by Stanley College of Engineering and Technology for Women, Hyderabad (May 2025).
- Delivered lectures in “Two Weeks Training Workshop on Symbolic Mathematics with Python: An emerging tool for Science and Engineering” organized by **MTTF-Society of Computing Intelligence** (Aug 2022).
- Delivered 4 lectures in a 2-day hands-on workshop on “Statistics Simplified: Essential Techniques for Biomedical Research” organized by **ICMR-NIIRNCD, Jodhpur** (Aug 2024).
- Delivered a lecture in a workshop on “Statistics and Sampling in Audit” organized by the Regional Training Institute, **Indian Audit and Accounts Department**, Prayagraj (July 2022).
- Delivered a lecture on Discriminant and Factor Analysis in an FDP on “Business Research Methods with Statistical Tools and Softwares” at the **Amity Business School**, Amity University, Lucknow (Nov 2022).
- Delivered 2 lectures in a workshop on “Statistical Analysis using SPSS and R” organized by the **Bureau of Psychology**, Prayagraj (July 2022).
- Delivered 2 lectures in a workshop on “Statistical Analysis using SPSS” organized by the **Bureau of Psychology**, Prayagraj (Sep 2023).
- Delivered 3 lectures in an “Online Short-Term Course on Research Methodology” organized by **UGC-HRDC**, Sambalpur University, Orissa (Dec 2022).
- **Chaired a session** in a seminar on “Data-Driven Predictive Analytics & Modeling-2024” organized by the Department of Statistics, **Sambalpur University, Orissa** (March 2024).
- **Chaired a session** at the “International Conference on Recent Trends in Mathematics, Statistics, and Engineering organized by **NMIMS, Indore** (Dec 2023).
- Delivered a lecture in a workshop on “**Research methodology and SPSS**” organized by Jagatpur PG College, Varanasi (Apr 2024).
- Delivered a lecture in a 14-day workshop on “Application of Statistical Tools in Research using JAMOV” organized by **Visva-Bharti, Santiniketan, West Bengal** (Oct 2024).
- Delivered a lecture in the One-Week Faculty Development Programme on “Multivariate Data Analysis Using SPSS” organized by the **Department of Statistics, University of Lucknow** (Dec 2024).
- Delivered a lecture on **Applications of Statistics in Bio-Sciences** at “National webinar VRUKSHAGANITAMRUTAM” organized by **Department of Botany and Mathematics**, KRK college, Acharya Nagarjuna University, Bapatla, **Andhra Pradesh** (Jan 2025).
- Delivered 4 lectures in “Online Short Term Course on Research Methodology” organized by UGC-HRDC, Sambalpur University, **Orissa** (March 2025).
- Delivered a lecture on "Statistical Analysis of Research Data & Introduction to the latest Statistical Analysis Software and Tools" during a faculty development program conducted by SHUHATS, Agriculture University (2025).
- Delivered an invited lecture on "The Digital Transformation of Official Statistics: Big Data and Machine Learning Methods" during the event of 75th years of **National Sample Survey (NSS) conducted by NSSO, MoSPI** (Sep 2025).
- Delivered two invited lectures, “Transforming Data into Insights: The Role of Machine Learning and Data Mining” and “Python Essentials for Predictive Machine Learning Modeling and Visual Analytics” in a workshop organized by the **Department of Mathematics, National Institute of Technology (NIT), Raipur** (Nov 2025).

Research Supervision

Ph.D. Supervision: **1 Ongoing**

Masters' Dissertations Supervision: **19 completed**

International Conferences

1. Presented a paper at the annual conference of the Population Association of America, 2025, in **Washington DC, USA**.
2. Presented a paper at the annual international conference RAPSIR, organized by the **Indian Society of Probability & Statistics (ISPS)**, 2024 at UoA, Prayagraj.
3. Presented two articles at the annual conference of the **Population Association of America, 2021**.
4. Presented a paper at the “7th African Population Conference”, held in **Johannesburg, South Africa** from Nov 29 to Dec 4, 2015.
5. Presented a paper at the 2nd International Conference on “Theory and Application of Statistics” at **Dhaka University, Bangladesh**, during Dec 27-29, 2015.
6. Presented a paper at “International Conference of the Indian Mathematics Consortium in Cooperation with American Mathematical Society-2016” in **BHU, Varanasi**.
7. Presented a research paper at the “12th Annual ISDSI Conference: Data Driven Decision Making in the Digital Age - 2018” organized by **SP Jain Institute of Management and Research, Mumbai**.
8. Presented a research article in Statistics Day organized by **GlaxoSmithKline (GSK) Asia Pvt. Ltd., Biostatistics, Bangalore, India (2019)**.
9. Presented a research paper at “International Conference on Recent Advances in Statistics and their Applications of Indian Society for Probability and Statistics” (**ISPS**) – **2013** in Aurangabad.
10. Presented a research paper at “International Seminar on Mortality Analysis and Forecasting - 2017” organized by **IUSSP and JNU, New Delhi**.

Research Collaborations

- School of Medicine, Cardiff University, **United Kingdom**.
- Indian Council of Medical Research (**ICMR**)-NIIRNCD, Jodhpur, Rajasthan.
- Indian Institute of Technology (**IIT**) - **Indore**, Madhya Pradesh.
- Indian Institute of Technology (**IIT**) - **Dhanbad**, Jharkhand.
- Banaras Hindu University (**BHU**), Varanasi, Uttar-Pradesh.
- Global IT Center, **State Bank of India**, Navi Mumbai, Maharashtra.
- **TransUnion-CIBIL** Ltd., Mumbai.
- **Bureau of Psychology**, Prayagraj.
- Project Concern International (**PCI**), New Delhi.
- School of Basic and Applied Sciences, Central University of Punjab, Bhatinda, **Punjab**.
- Department of Bioinformatics, Institute of Interdisciplinary Studies, UoA, Prayagraj.
- Utkal University, **Bhubaneswar**.
- Bihar Agricultural University, Sabour, Bhagalpur.
- Jawaharlal Nehru Agricultural University, Jabalpur, Madhya Pradesh.
- Department of Gastroenterology, Yashoda Superspeciality Hospital, Ghaziabad, Uttar Pradesh.
- Centre for Medical Biotechnology, Amity Institute of Biotechnology, Amity University, Noida.
- The Amity School of Applied Sciences, Amity University, Mumbai.
- Amity Institute of Applied Sciences, Amity University, **Kolkata**.
- Clinical Development Services Agency, NCR Biotech Science Cluster, **Haryana**.

Society/Association Memberships

- Indian Society for Probability and Statistics (ISPS), Tirupati, Andhra Pradesh.
- International Union for the Scientific Study of Population (IUSSP), France.
- Indian Society for Medical Statistics (ISMS), AIIMS, New Delhi.
- MathTech Thinking Foundation (MTTF), Punjab.
- Indian Association for the Study of Population (IASP), New Delhi.

National Conferences

- Presented a poster at the “National Conference of Indian Association for the Study of Population” IASP, Dec-2024, at JNU, New Delhi.
- Presented a paper at the “Annual Seminar of International Institute for Population Studies” IIPS, Feb-2024, at BHU, New Varanasi.
- Presented a paper at the National Conference on “Recent Trends in Mathematics & Statistics - 2013” at DDU University Gorakhpur.
- A paper was presented at the “National Conference on Recent Advances in Statistics and Application” in Raipur - 2013.
- Presented a research paper at the “National Conference of Indian Association for the Study of Population” IASP-2013.
- Participated in a workshop “A Short Course on Introduction to Bayesian Statistical Modeling”, organized jointly by DST-CIMS and Department of Statistics, BHU - 2014.
- Presented a poster at the “National Conference of Indian Association for the Study of Population” IASP-2014.
- Presented a paper at “National Seminar on Population Studies and Public Health” at Mahatma Gandhi Kashi Vidyapith, Varanasi - 2015.
- Participated in a workshop “Hypothesis Testing in Biomedical Research” at the Department of Biostatistics and Health Informatics, S.G.P.G.I, Lucknow - 2015.
- Presented a paper at “National Conference on Time Series, Analytics & Recent Advances in Statistical Modeling” at the Central University of Rajasthan.
- Presented a paper at “National Seminar NSSICW - 2015” at BHU, Varanasi.
- Presented a paper at “National Conference (RSCTA-2016)” at Ramanujan College, New Delhi.
- Presented a poster at the “National Conference of Indian Association for the Study of Population” IASP-2016, IEG New Delhi.

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