Dr. D. VEDAVATHI SARAJA

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PROFESSIONAL SUMMARY

I am a Lecturer in Statistics at Maris Stella College with over 20 years of academic experience, specializing in Probability Distributions, Experimental Designs, and Statistical Inference. With thirteen research publications and active participation in national and international workshops, I combine teaching, research, and leadership to enhance learning and strengthen higher education practices.

ACADEMICS

Degree	Institution/University	Year
Ph.D. (Statistics)	Annamalai University, Tamil Nadu	2025
M.Sc. (Statistics)	Andhra University, Visakhapatnam	2001

PROFESSIONAL EXPERIENCE

Position Held	Institution	Duration
Lecturer in Statistics	Maris Stella College (Autonomous), Vijayawada	21 years 3 months
Lecturer in Statistics	Other Institutions	3 years

RESEARCH CONTRIBUTIONS

Research Publications: 13 (Journals)

- Ganaie, R. A., Rather, A. A., Saraja, D. V., Alam, M., Ahmad, A., Tali, A. M., Nisa, R., & Elemary, B. R. (2023). Exponentiated Adya distribution: Properties and applications. Reliability Theory & Applications, 18(2), 39–49. https://doi.org/10.24412/1932-2321-2023-273-39-49
- Saraja, D. V., Subramanian, C., & Rao, N. S. (2023). Weighted Prakaamy distribution: Properties, applications and analysis. International Journal of Membrane Science and Technology, 10(5), 1337–1354. https://www.cosmosscholars.com/journals/2017-09-14-10-27-05/ijmst
- Saraja, D. V., Subramanian, C., & Rao, N. S. (2023). A new version of Prakaamy distribution with properties and applications. International Journal of Membrane Science and Technology, 10(6), 1355–1368. https://www.cosmosscholars.com/journals/2017-09-14-10-27-05/ijmst
- Selvakumar, K., Ansari, J. A., Kavitha, K., Subramanian, C., Saraja, D. V., Khan, A. A., Ganaie, R. A., Rather, A. A., & Mohiuddin, M. (2023). A new extended exponentiated distribution with properties and applications. Reliability Theory & Applications, 18(4), 46–56. https://www.neuroquantology.com/article.php?id=4117
- Ganaie, R. A., Subramanian, C., Soumya, V. P., Shenbagaraja, R., Alam, M., Saraja, D. V., Kinjawadekar, R., Rather, A. A., & Dar, S. A. (2023). Enhancing engineering sciences with Uma distribution: A perfect fit and valuable contributions. Reliability Theory & Applications, 18(4), 99–111. https://www.neuroquantology.com/article.php?id=4117
- Saraja, D. V., Jayakumar, B., Mishra, M., Deshpande, P., Subramanian, C., Ganaie, R. A., Rather, A. A., & Bhat, B. A. (2023). Exploring the length biased Tornumonkpe distribution: Properties, estimations and practical applications. Reliability Theory & Applications, 18(4), 87–98. https://doi.org/10.24412/1932-2321-2023-476-87-98

- Subramanian, C., Saraja, D. V., Rather, A. A., & Rao, N. S. (2022). A new generalisation of Darna distribution with properties and applications. Dickensian Journal, 22(16), 347–364. DOI:10.12001.DK.J2022.V22.16.377. http://dickensian.org/
- Saraja, D. V., Subramanian, C., Rather, A. A., & Rao, N. S. (2022). Some contributions to Darna distribution with properties and applications in medical science. Dickensian Journal, 22(16), 2057–2072. DOI:10.12001.DK.J2022.V22.16.552. http://dickensian.org/
- Saraja, D. V., Mohiuddin, M., Fasil, M., Subramanian, C., Rather, A. A., Rao, N. S., & Dar, S. A. (2022). Assessment of the reliability and performance of the engineering system using Exponentiated Weibull distribution. NeuroQuantology, 20(12), 2529–2545. https://www.neuroquantology.com/article.php?id=4117
- Aafaq A. Rather, D. Vedavathi Saraja, Maryam Mohiuddin, Eid Sadun Alotaibi, Danish Qayoom, P. S. Metkewar & Showkat A. Dar (April 2025).“A Novel Extension of Akash Distribution: Properties, Simulation and Applications” Lobachevskii Journal of Mathematics by Springer Nature. ISSN 1995-0802. Volume 46, PP 5986-6001. https://doi.org/10.1134/S1995080225609683
- D. Vedavathi Saraja, Aijaz Ahmad Magray, Firdous Ahmad, Aafaq A. Rather, R. Vijaykrishnaraj, Syed M. Parveen, Rayeesa Basheer (September, 2025). “Optimizing Path Finding: A Novel Algorithm for Graph Theory”. Reliability Theory & Applications. ISSN 1932-2321, Volume 20, PP 367-380. https://doi.org/10.24412/1932-2321-2025-386-367-380
- Aafaq A. Rather, D. Vedavathi Saraja, Farooq Ahmad, Ajjaz Maqbool, D.K. Jain, R. Vijaykrishnaraj, Syed M. Parveen, Raeesa Bashir, Showkat Ahmad Bhat. (September, 2025). “Fractional Integral Inequalities And Their Q-Extension”. Reliability Theory & Applications. ISSN 1932-2321, Volume 20, PP 752-757. https://doi.org/10.24412/1932-2321-2025-386-752-757
- Suvarna Ranade, Aafaq A. Rather, Maryam Aljarrah, D. Vedavathi Saraja & Syed M. Parveen , (February 2026). “The Transmuted Komal Distribution: Properties,

Estimation, and Real-World Applications". Lobachevskii Journal of Mathematics by Springer Nature. ISSN 1995-0802. Volume 46, PP 5986-6001. https://doi.org/10.1134/S1995080225609683

ADMINISTRATIVE RESPONSIBILITIES

- Department In-charge
- Chairperson of Board of Studies
- Member of Academic Council
- Additional Controller of Examination
- Anti Ragging Cell Coordinator
- Cultural and Literary Committee Coordinator
- Syllabus framing and organising BoS
- Planning & Organizing Departmental Activities
- Additional Controller of Examinations
- NAAC Criterion II Coordinator

EXAMINATION & EVALUATION DUTIES

- Internal Evaluation
- Paper setter
- Organising Practical Examinations
- Chief Examiner

ACADEMIC CONTRIBUTIONS TO OTHER INSTITUTIONS •

Member, Research and Ethics Committee for PG Board of Studies, Government NRS Ayurvedic College, Vijayawada from 2025 - 2027

- Member- BOS, Department of Statistics, St. Theresa's Degree and PG college for women, Eluru for the years 2016 - 2017 to 2019- 2020.
- Member- BOS, Department of Statistics,PB Siddhartha College of Arts and Science , Vijayawada for the years 2015-2016 to 2017-2018.
- Member- BOS, Department of Statistics, Siddhratha mahila College , Vijayawada for the years 2015-2016 to 2017-2018.

- Member- BOS, Department of Statistics, Noble Degree college , Machilipatnam for the years 2016-2017 to 2018-2019.

WORKSHOPS / SEMINARS / WEBINARS / CONFERENCES ATTENDED

2025-2026

- Participated in the Faculty Development Program Organized by Maris Stella College on " AI Tools for Better Teaching" from 2-5, June, 2025.
- Participated in Two- day National Webinar on "Ancient Wisdom for Modern Challenges: An Interdisciplinary Approach" held organized by the IKS cell in Association with IQAC of Maris Stella College from 15-16, September 2025.
- Attended an online Session on " Step by Step Procedure for Course Outcome Calculation and PO Mapping" by Dr. Albert Alexander, Associate Professor, VIT, Vellore on 22nd September, 2025.
- Attended a two-day National Online Workshop on "Chemdraw, Origin and Math Type: Empowering Research & Teaching" organized by the Department of Chemistry, Maris Stella College(Autonomous), Vijayawada from 17-18 September, 2025.
- Participated in a State Level One-day Workshop for NIRF Coordinators of Universities and Colleges on " Driving Excellence: Institutional Strategies for NIRF-2026" at Acharya Nagarjuna University, Guntur organized by Andhra Pradesh State Council of Higher Education, Mangalagiri on 01.12.2025
- Participated in a Two- Week Virtual Faculty Development Program on "Applications of Artificial Intelligence" organized by the IQAC of Maris Stella College in Collaboration with Dept. of Computer Science, Yeswantha pur Campus, Christ University, Bangalore from 3-14 November, 2025.
- Participated in a Three - day Faculty Development Program on "Holistic Development through Value Education" organized by Maris Stella College, Vijayawada from 20-23 November, 2025

2024–2025

- One-day workshop on 'Towards Enhanced Performance in NIRF Rankings – 2025: A Strategic Approach' (23 Dec 2024)
- Two-day Capacity Building Workshop on 'Research Techniques and Manuscript Development for Service-Learning Programmes' (12–13 Dec 2024) ● National Webinar on 'NIRF Rankings: Understanding Parameters & Strategies for Improvement' (18 Nov 2024)
- Two-day Capacity Building Workshop on 'Assessment Criteria & Rubrics for Service-Learning' (30–31 Aug 2024)

2023–2024

- Two-day Capacity-Building Workshop on 'Andrew Furco's Self-Assessment Rubric for the Institutionalization of Service-Learning in Higher Education' (04–05 Dec 2023)
- International Webinar on 'Promoting IPR Culture in Higher Education Institutions' (09 Feb 2024)
- National Seminar on 'Unleashing the Power of Intellectual Property in the Digital Era' (20 Feb 2024)
- National Workshop on 'Writing Proposal for Funded Project' (14 Apr 2024) ● One Day National Webinar on 'Advanced Tools For Research Methodology' (29 Apr 2024)
- Discussions on Enterprise SaaS and Artificial Intelligence (21–22 May 2024)

2022–2023

- Workshop on 'Learning Through Language Supportive, Interactive & Inclusive Pedagogy' (12–14 Sep 2022)
- National Webinar on 'Effective Implementation of NEP 2020: Role of Teachers & Institutions' (08 Oct 2022)
- Workshop on 'India Rankings–2023' (21 Nov 2022)

- Virtual Capacity Building Workshop on 'Research & Publications in Service-Learning Programs' (09–15 Jan 2023)
- National Level Webinar on Revised NAAC Criteria (22–28 Feb 2023) ● Workshop on 'Participatory Learning and Evaluation' (29–31 Mar 2023)

2021–2022

- Organized three-day National Workshop on 'Statistical Analysis in Research using SPSS' (03–05 Sep 2021)
- International Workshop on 'Research Methodology and Statistical Applications (SPSS)' at Annamalai University (19–31 Jul 2021)
- Three-day Virtual Professional Development Programme on 'Motivating Motivators: Practical Tips, Strategies and Skills' (18–20 Nov 2021) ● Seminar on 'Statistics and Career Growth in Public and Private Sectors', Andhra University (06 Nov 2021)
- Talk on 'Cyber Crime' organized by Cyber Peace Foundation

2020–2021

- National Workshop on 'SPSS', Dr. M.G.R. Educational and Research Institute, Chennai (14–15 May 2021)
- National Webinar on 'Impact of Learning Space on Educational Ecosystem', Ch. S.D. St Theresa’s College, Eluru (18 Apr 2021)
- Expert Talk on 'A Beginner’s Guide to Patents and Patenting Process', MCKV Institute of Engineering, West Bengal (17 Apr 2021)
- International FDP on 'Research Methodology & Scientific Tools', B K Birla Institute of Engineering & Technology, Pilani (13–15 Apr 2021)
- Workshop on 'Service Learning', Maris Stella College (11–12 Jan 2021) ● National Webinar on 'Big Data Analytics', Karnatak Science College, Dharwad (08 Dec 2020)
- Five-day Workshop on 'Formal Written Communication', Maris Stella College & Christ University (19–23 Oct 2020)
- International Workshop on 'Research Methodology in Science', Aretex Scientific

(05–10 Oct 2020)

- Workshop on 'Question Bank Preparation and Validation', Maris Stella College (31 Aug–04 Sep 2020)
- Workshop on 'Digital Assessment Tool through Examineer Software', Maris Stella College (17–21 Aug 2020)
- Online Workshop on 'Office Automation Tools', Maris Stella College (21–23 Jul 2020)
- International Webinar on 'Statistical Data Analysis Tools: SAS & SPSS', SG Govt. Degree College, Piler (09 Aug 2020)
- National Webinar on 'COVID-19: Challenges before Higher Education', KLE Society's College, Karnataka (10 Jul 2020)
- National Webinar on 'Indian Economy during COVID-19', Sir CR Reddy College, Eluru (22 Jun 2020)
- National Webinar on 'Online Examination Tools', Bishop Heber College, Tamil Nadu (20 Jun 2020)
- Workshop on 'Outcome Based Education: Teaching and Learning Online and Measuring Outcome Attainment', Maris Stella College (08–19 Jun 2020)

2019–2020

- National Webinar on 'Statistical Methods for Clinical Trials in Patients with Bacterial or Viral Infections', Sir Syed College, Kerala (30 May 2020) ● Workshop on 'Debriefing Sessions using Belbin', Maris Stella College (09–10 Mar 2020)
- Workshop on 'Designing Effective Assessment Practices and Digital Technology', Maris Stella College & Christ University (02–03 Dec 2019)
- Workshop on 'IPR in Indian Scenario: Current Perspectives and Future Challenges', Maris Stella College (16 Nov 2019)
- Workshop on 'Constructive Alignment and Outcome Based Education', Maris Stella College & Christ University (21–23 Oct 2019)

2018–2019

- Three-day National Workshop on 'Applications of SPSS, Structural Equation Modelling by AMOS', VIT, Tamil Nadu (23–25 Nov 2018)

2017–2018

- National Workshop on 'TOT', Loyola College, Chennai (19–20 May 2017)

2016–2017

- Faculty Development Workshop on 'Teaching Techniques in the Classroom', SDMS Mahila College, Vijayawada (04 Nov 2016)

FACULTY DEVELOPMENT PROGRAMMES / TRAINING

- FDP on 'Art of Writing & Publishing Research Paper and Application of Statistical Tools', Aurora's College, Hyderabad (27–28 May 2020)
- FDP on 'Introduction to Data Science', Guntur Engineering College in association with Codegnan IT Solutions (18–22 May 2020)
- FDP on 'Tools for Online Classroom Post Covid-19', PB Siddhartha College, Vijayawada (18–20 May 2020)
- FDP on 'Statistical Application using SPSS', SSS Shasun Jain College for Women, Chennai (16–17 May 2020)

CERTIFICATE COURSES

- Virtual Certificate Course on 'Adaptive Design for Learning' (Jul–Sep 2022)

LANGUAGES

- Hindi
- Telugu
- English