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Dr. Rathod has published extensively in national and international journals and has contributed to several multi-disciplinary research projects under ICAR and international collaborations. He is the recipient of the G. R. Seth Memorial Young Scientist Award from the Indian Society of Agricultural Statistics, the Best Young Scientist Award from ICAR–Indian Institute of Rice Research, Hyderabad, and has been elected as an Associate Fellow of the Telangana Academy of Sciences. He has organized several training programs on statistical and machine learning applications in agriculture using open-source software, and has contributed to postgraduate teaching and training programs in statistics, time series analysis, and machine learning for agricultural research.

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