

DR. MUHAMMED IRSHAD M**Research Associate,**

Agro-Economic Research Centre

Ministry of Agriculture and Farmers' Welfare, Govt. of India

Visva Bharati, Santiniketan, West Bengal, 731235

Phone: +91 9746079838 | Email: 07737312101@visva-bharati.ac.in**PERSONAL DETAILS**

Date of Birth : 04/10/1994
Marital Status : Unmarried
Sex : Male
Nationality : Indian
Residential Address : Elakkadu House, Olakara P.O, Koomanna,
Malappuram District, Kerala, Pin : 676306

ACADEMIC IDENTITIES

Google Scholar <https://scholar.google.com/citations?user=o7VCdD4AAAAJ&hl=en&authuser=1&oi=ao>
Research Gate https://www.researchgate.net/profile/Muhammed-Irshad-M?ev=hdr_xprf
ORCID 0009-0008-9965-7577
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Web of Science NIV-0462-2025
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EDUCATION

Ph. D. in Agricultural Statistics | Visva-Bharati Central University | 2025

M.Sc. in Agricultural Statistics | Dr. Rajendra Prasad Central Agricultural University | 2019

B.Sc. in Agricultural Science | Bihar Agricultural University | 2017

Languages : Malayalam, English, Hindi, Bangla and Tamil

Skills : - Data Analysis and Programming
- Proficient in SPSS, Amos, JAMOV, R, and Python
- MS Office (Excel, Word, PowerPoint)

WORK EXPERIENCE

1. Research Associate, Agro-Economic Research Centre

Ministry of Agriculture and Farmers' Welfare, Government of India,

Visva-Bharati | January 2025 – Present

Key Responsibilities:

- Conducting primary and secondary data collection and analysis
- Preparing technical reports and policy briefs

2. Livelihood Specialist, Bihar Rural Livelihood Promotion Society

Ministry of Rural Development, Government of Bihar | August 2019 – October

2021

Key Responsibilities:

- Promoted sustainable rural livelihoods through the integration of farm-based activities, livestock management, and small enterprises.
- Conducted capacity-building programs for community members and local institutions.
- Facilitated agricultural extension services and farmer outreach initiatives.
- Supported community-driven development programs focused on social and economic empowerment.

PUBLICATIONS

Roy, S., Adak, S., Chakraborty, S., Mukherjee, R., Hasan, M., Irshad, M.M, Acharyya, A., and Ghosh, S. (2025). Climate Resilient Farming: Influence of Livelihood Assets on Agrochemical vs Organic Input Use in Coastal India. *Indian Journal of Extension Education*. 61(4), 120-127. <https://doi.org/10.48165/IJEE.2025.61420>

Irshad, M. M., Sarkar, K. A., Dhakre, D. S., and Bhattacharya, D. (2024). Forecasting of Coconut Price Using Time Series Modelling Technique. *Journal of Agricultural Development and Policy*. 34 (2), 223-231. <https://doi.org/10.63066/23220457.34.2.005>

Irshad, M. M., Sarkar, K. A., Dhakre, D. S., and Bhattacharya, D. (2024). Comparative analysis of statistical model and machine learning algorithms in forecasting black pepper price of Kerala. *Biological Forum – An International Journal*, 16(8), 63–68.

Irshad, M. M., Sarkar, K. A., Dhakre, D. S., and Bhattacharya, D. (2024). Forecasting of monthly cardamom price using long memory time series modelling technique. *International Journal of Statistics and Applied Mathematics*, 9(6), 121–126. <https://doi.org/10.22271/math.2024.v9.i6b.1906>

Irshad, M.M., Kumar, M., and Kamat, D.N. (2024). Sugarcane Yield Prediction in Bihar using Biometric Characteristics. *Environment and Ecology*. 42 (3), 948-955. <https://doi.org/10.60151/envec/WUMC4415>

Irshad, M.M., Kumar, M., Ray and Sattar, A., Paswan, S. and Minnattulla (2023). Effect of meteorological elements on Sugarcane wilt in Bihar. *International Journal of Statistics and Applied Mathematics* .8 (4), 128-133.

BOOKS

Irshad, M. M., Acharyya, A., & Ghosh, S. (Eds.). (2026). *Manual on Artificial Intelligence and Statistical Methods for Assessing Agricultural Performance*. Agro-Economic Research Centre (for the States of West Bengal, Sikkim and Andaman & Nicobar Islands), Visva-Bharati, Santiniketan, West Bengal, India. (ISBN: 978-81-989525-0-9).

POPULAR ARTICLES

Irshad, M. M. (2026). The Future of Farming: Artificial Intelligence in Indian Agriculture. *Vigyan Varta* 7 (04): 37-40.

CONFERENCE /SEMINAR PAPER PRESENTATION

February 2025

Title: “Exploring Advanced Forecasting Models for Coconut Prices: A Comparative Study of Wavelet-Enhanced Models with Deep Learning Techniques”

Event: National Seminar on “Recent Trends in Modelling: Emphasis on Statistical Methods and Machine Learning Techniques”

Date & Venue: 15th–16th February 2025, organized by the Department of Agricultural Statistics, Palli Siksha Bhavana, Visva-Bharati University.

February 2024

Title: “Forecasting Rubber Prices in Kerala Using LSTM Deep Learning Techniques”

Event: 74th Annual Conference of the Indian Society of Agricultural Statistics on “Harnessing Statistics and Artificial Intelligence for Sustainable and Smart Agriculture”

Date & Venue: 2nd–3rd February 2024, organized by Navsari Agricultural University, Navsari, Gujarat.

December 2023

Title: “Forecasting of Cocoa Price Using Hybrid Long-Memory Time Series Model”

Event: VIIIth International Conference on “Global Research Initiatives for Agriculture and Allied Sciences”

Date & Venue: 18th–20th December 2023, organized by Astha Foundation, Meerut (UP) & University of Agricultural Sciences, Raichur (Karnataka).

PARTICIPATION IN WORKSHOPS/ TRAININGS

July 2025

Event: 21-days online training program on “Advanced Statistical and Machine Learning Techniques for Data Analysis Using Open Source Software for Abiotic Stress Management in Agriculture” organized by ICAR-NIASM, Baramati during 16th July to 5th August 2025.

February 2025

Event : Interaction Programme between the Scholars of AERC and Research Methodology Experts

Date & Venue : 24th–25th February 2025, Agro-Economic Research Centre (MoA&FW, GoI), Visva-Bharati, Santiniketan.

February 2024

Event : 14-Day National Workshop on “*Statistical Techniques and Practices for Applied Statisticians and Data Scientists*”

Date & Venue : 15th–28th February 2024, Department of Agricultural Statistics, Palli Siksha Bhavana, Visva-Bharati University, Santiniketan.

July–August 2023

Event : 12-Day DST-SERB Sponsored High-End Workshop on “*Multivariate Statistical Machine Learning Methods for Modelling Agricultural Data*”

Date & Venue : 24th July–4th August 2023, ICAR–Indian Institute of Rice Research, Hyderabad.

May 2023

Event : 5-Day Training Programme on “*Data Driven Agriculture : A Statistical Analysis Training Using R*”

Date & Venue : 23rd–27th May 2023, College of Agriculture, Sumerpur, Agriculture University, Jodhpur, Rajasthan.

January 2021

Event : 7-Day National Level Online Training Programme on “*Statistical Data Analysis using R Software*”

Date & Venue : 4th–11th January 2021, National Institute of Electronics & Information Technology (NIELIT), Guwahati.

January 2021

Event : 7-Day Short-Term Training Program on “*Bioinformatics*”

Date & Venue : 4th–11th January 2021, National Institute of Electronics & Information Technology (NIELIT), Guwahati.

February–March 2020

Event : 10-Day National Workshop on “*Data Analysis Using Statistical Tools, Techniques and Packages with Special Emphasis on SPSS and R*”

Date & Venue : 23rd February–3rd March 2020, Department of Agricultural Statistics, Palli Siksha Bhavana, Visva-Bharati University, Santiniketan.

AWARDS

Best Article of the Month Award for the article entitled “*The Future of Farming: Artificial Intelligence in Indian Agriculture*” in Vigyan Varta: An International E-Magazine for Science Enthusiasts (E-ISSN: 2582-9467) for the month of April 2026.

Best Oral Presentation Award for the paper titled “*Forecasting Rubber Prices in Kerala Using LSTM Deep Learning Techniques*” in the 74th Annual Conference of Indian Society of Agricultural Statistics on “*Harnessing Statistics and Artificial Intelligence for Sustainable and Smart Agriculture*” during 02nd -03rd February 2024, Organized by Navsari Agricultural University, Navsari (Gujarat).

SOFTWARE DEVELOPMENT

Irshad, M.M., Sarkar, K. A., Dhakre, D. S., and Bhattacharya, D. (2025). fracARMA: Fractionally Integrated ARMA Model (Version 0.1.0) [R package]. CRAN. <https://doi.org/10.32614/CRAN.package.fracARMA>

POLICY BRIEFS

Roy, S., Adak, S., Chakraborty, S., Mukherjee, R., Hasan, M., Irshad, M.M, Acharyya, A., and Ghosh, S. (2025). From Vulnerability to Resilience: Policy Insights on Climate Smart Coastal Agriculture in Policy Brief 01, Agro Economic Research Centre, Visva-Bharati, Santiniketan, West Bengal, pp 1-8. https://www.visvabharati.ac.in/home/wp-content/uploads/2025/11/AERC_Policy-2025_01.pdf

MEMBERSHIPS IN SCIENTIFIC BODIES

Life Member of Indian Society of Agricultural Statistics, New Delhi
