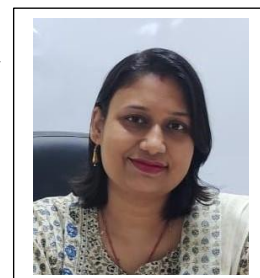


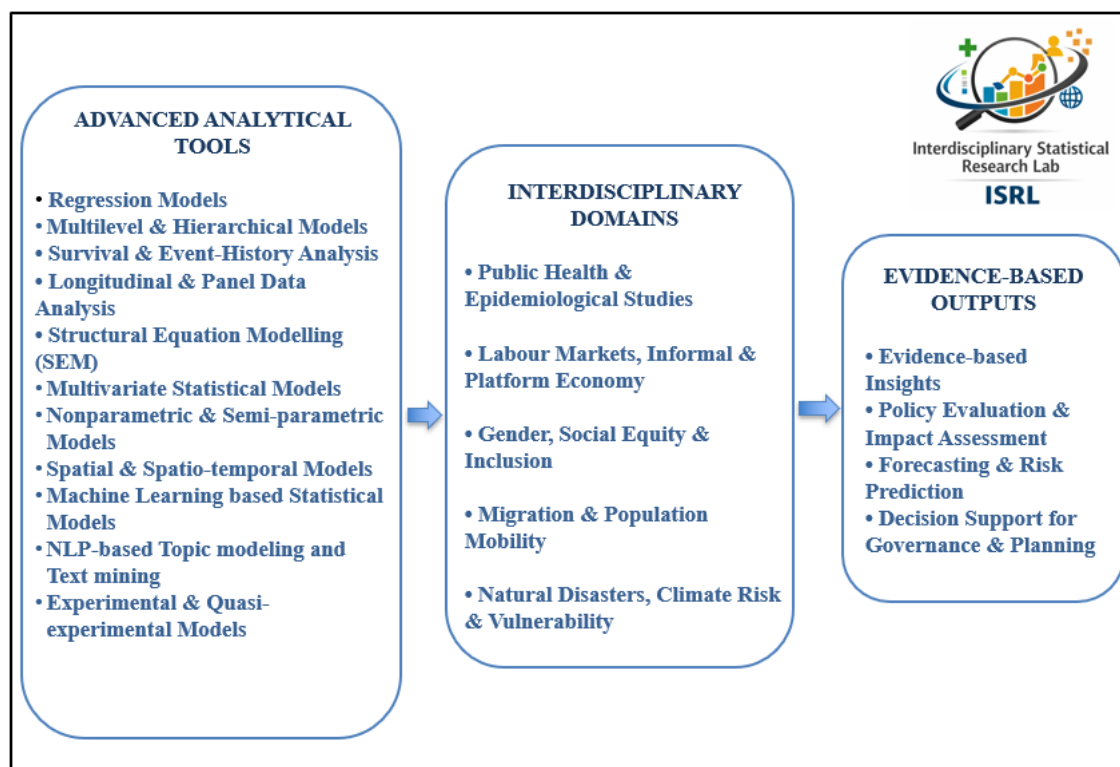


## INTERDISCIPLINARY STATISTICAL RESEARCH LAB (ISRL)

- **Name of Principal Investigator:** Dr. Tina Dutta
- **Research Theme:** The *Interdisciplinary Statistical Research Lab (ISRL)* functions as a methodological and applied research hub, integrating advanced statistical modelling and machine learning techniques to address complex societal challenges across health, labour, gender, migration, ageing, and disaster contexts.
- **Broad Area of Research and Scope:**  
Advanced statistical modelling and machine learning techniques are employed to model, predict, and analyze complex data, enabling the generation of rigorous, policy-relevant insights across the following broad interdisciplinary domains:
  1. Public Health and Epidemiological Studies
  2. Labour Markets, Informal Economy and Platform Economy
  3. Gender, Social Equity & Inclusion
  4. Migration & Population Mobility
  5. Natural Disasters, Climate Risk & Vulnerability
  6. Policy Evaluation, Forecasting & Decision Support



### Schematic Representation of Broad Area of Research:



**Targeted Application Area:** Public Health, Labour Market Studies, Gender, Migration, Natural Disasters, Policy Evaluation

**Achievements:**

1. Ms. Muskan Chhetri, PhD Scholar, under the guidance of Dr. Tina Dutta achieved ICSSR Full-term Doctoral Fellowship 2025-26 on the research proposal entitled “**Gig and Platform Economy in India: Emerging Employment Dynamics, Migration and Gender Perspectives**”.
2. Sengupta, A\*, Prakash, M. & **Dutta, T\*** (2026). Non-adherence to iron and folic acid consumption among Indian pregnant women: evidences from national family health survey-5 data (2019-21). *BMC Pregnancy & Childbirth*. <https://doi.org/10.1186/s12884-026-09639-4> [SCIE-Q1, SCOPUS]
3. **Dutta, T\***, & Kumar, Abhinav. (2026). Harnessing Latent Dirichlet Allocation-based topic modeling to unveil the focus areas in Ayush healthcare in India. *Journal of Ayurveda and Integrative Medicine*, 101356. <https://doi.org/10.1016/j.jaim.2026.101356> [SCOPUS, ESCI-Q2 journal]
4. **Dutta, T\***, and Shaw, A. (27 January 2026) “A Profile Sketch of Middle-Class Women labour Migrants in Contemporary Urban India” in Kunal Keshri, Irudaya Rajan and Kirti Gaur (ed). *COVID-19 and Labour Migration in India: Evidences from the Pandemic*. **Routledge Publications**, India, pp 75-92. (print ISBN 9781032007083, online ISBN 9781003729679).

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