

Guru Dayal Kumar

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Research Interest



Investigate the relationship between socio-economic outcomes and flood exposure from the policy perspectives.

Education

- 2022 – Present  **Ph.D., Indian Institute of Technology Indore**
Thesis title: *Climate Change, Livelihood Strategies and Distress Migration- A Study of India.*
- 2018 – 2020  **M.A. Economics, Central University of South Bihar**
Thesis title: *Socio-Economic Indicators and Financial Literacy- A State Level Analysis of India .*
- 2014 – 2018  **B.A. Economics, Tilkamanjhi Bhagalpur University**

Miscellaneous Experience




Work Experience

- March 2022  **Consultant “Development Solutions Delhi”.**
- Collection of Qualitative data through questionnaire
- Preparing summary report
- March 2021  **Field Investigator “Institute for Human Development”.**
- Quantitative and Qualitative Data Collection through the questionnaire, FGD and Case study
- Based on the field notes making filed report

Awards and Achievements





- 2022  **UGC NET and JRF.**
- 2018-2020  **Received academic scholarship for Postgraduate studies (Half Tuition Fee Waiver).**
- 2018  **Awarded “Distinctions” in BA Economics (Honors).**

Publications





- 2024  Kumar, G. D., & Pradhan, K. C. Assessing the district-level flood vulnerability in Bihar, eastern India:an integrated socioeconomic and environmental approach. *Environmental Monitoring and Assessment*, 196 (9), 799.
-  Kumar, G. D., Tyagi, S., & Pradhan, K. C. (2024). Predictive ML analysis: Rainfall & flood vulnerability in Bihar, India. In *Artificial Intelligence and Information Technologies* (pp. 447-453). CRC Press.
-  Kumar, G. D., Pradhan, K. C., & Tyagi, S. (2024). Deep Learning Forecasting: An LSTM Neural Architecture based Approach to Rainfall and Flood Impact Predictions in Bihar. *Procedia Computer Science*, 235, 1455-1466.

Miscellaneous Experience (continued)

Conference/Symposium/ Workshop/Course

- 2023  Presented a paper entitled “Deep Learning Forecasting: An LSTM Neural Architecture based Approach to Rainfall and Flood Impact Predictions in Bihar, India” in the *International Conference on Machine Learning and Data Engineering*, Nov 23-24, 2023, at UPES, Dehradun, India.
-  Completed the “Techniques and Analysis in Migration Research” course conducted from 15th June to 17th July 2023, organized by The *International Institute of Migration and Development* (IIMAD), Thiruvananthapuram, Kerala.
-  Participated in the training program on “Migration and Development: Issues and Perspectives” organized by the *V.V. Giri National Labor Institute, Noida*, from 18th to 20th September 2023.
- 2024  Attended Workshop on “Climate Change and Human Migration: An Earth Systems Science Perspective” organized by the *National Academics Science Engineering and Medicine*, from 18th to 19th March 2024.

Skills

- Languages  Reading, Writing and Speaking Competencies for English, Hindi
- Coding  R, Stata, QGIS, \LaTeX , Python
- Software  EViews, SPSS, MS Office
- Misc.  Academic Research, Field Investigator, Consultation, \LaTeX Typesetting and Publishing.

References

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