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 Stratigies 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 Achivements

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.

◾ Presented a paper entitled "Assessing the district-level flood vulnerability in Bihar, eastern India: an integrated socioeconomic and environmental approach." in the *School of Humanities and Social Sciences Research Symposium*, April 29-30, 2024, at IIT, Indore, India.

Skills

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

References

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