

# 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.
  - Presented a paper on “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, Field Investigator, Consultation,  $\LaTeX$  Typesetting and Publishing.

## References

### Dr. Kalandi Charan Pradhan

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Indore, India ,  
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### Dr. Abodh Kumar

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Central University of South Bihar,  
Gaya India.  
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