

# Nishant Kumar

# Phd, Civil Enginnering

India, 27 years old

**Skills** 

3801 Baldwin Ave, Lincoln, USA

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# Hydrology Experienced Machine Learning Experienced Research Experienced Data Analysis Experienced Statistical Analysis Experienced Python Experienced Matlab Experienced R Experienced

I am working on Floods and Droughts, apllication of machine learning in hydrology, and Nonstationarity.

### **Education**

Sep 2022 - Jun 2026

### Ph.D. Civil Engineering

University of Nebraska-Lincoln at Lincoln, US

Advisor: Prof. Tirthankar Roy

Jul 2022

### MTech, Civil Engineering

Indian Institute of Science at India

Advisor: Prof. D. Nagesh Kumar

Jul 2020

### **BE, Civil Engineering**

Jadavpur University at India

# Additional information

### Honors & Awards

Graduate Student Travel Awards 2023

NWEA Student Scholarship

### **Publications**

• A Machine Learning-based Probabilistic Approach for Irrigation Scheduling, Water Resources Management (2024)

# Links

Experienced

High performance computing

github

Linkedin

### Languages

English	
Highly proficient	
Bengali	
Highly proficient	
Highly proficient	
Highly proficient  Hindi	

# **Hobbies**

- Cricket
- Swimming
- Volleyball

• Trends and Causal Structures of Rain-on-Snow Flooding, Journal of Hydrology (under review)

### **Current Project**

Enhancing the Hydrological Drought Monitoring Capability of the US Drought Monitor funded by NASA

### Conferences

- •Kumar\*, N., K. K. Kar\*, S. Srivastava\*, S. Rasiya Koya\*, S. Pokharel\*, M. Likins\*, and T. Roy (2023), Causal Discovery Methods to Investigate Rain-on-Snow Flooding, *AGU Fall Meeting*, Dec 11-15, San Francisco.
- •Kumar, N., K. K. Kar, and T. Roy (2023), Trend for rain-on-snow events across North America, *Nebraska Water Conference*, Oct 3-4, Omaha.
- •Roy, T., S. Rasiya Koya, S. Pokharel, N. Kumar, S. Srivastava, K. K. Kar, and I. Kim (2023), Convergent research towards building flood resilience in Nebraska, *Nebraska Water Conference*, Oct 3-4, Omaha.
- •Blackwell, B., S. Rasiya Koya, N. Kumar, and T. Roy (2023), Causal Drivers of FloodInduced Water Quality Issues in Nebraska, *Nebraska Summer Research Program Symposium*, Aug 3, Lincoln.
- •Kumar, N., D. N. Kumar, and T. Roy (2023), Spatiotemporal analysis and modeling of non-stationarity in hydrological time series, *EGU General Assembly*, Apr 24–28, Vienna.
- •Srivastava, S., N. Kumar, A. Malakar, S. Das Choudhury, C. Ray, and T. Roy (2023), An ML-based Probabilistic Approach for Irrigation Scheduling, *EGU General Assembly*, Apr 23-28, Vienna.

# Mentoring

- Mentored an under graduate student in summer 2023.
- Mentoring a graduate student in summer 2025.