

# Shivam Sharma

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## EDUCATION

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**New Jersey Institute of Technology**

*M.Sc in Data Science*

New Jersey, USA

*Aug 2019 – May 2021*

**The LNM Institute of Information Technology**

*B.Tech in Computer and Communication Engineering*

Rajasthan, India

*Aug 2015 – May 2019*

## PUBLICATIONS

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**RAG vs. Long Context: Examining Frontier Large Language Models for Environmental Review Document Comprehension** [Paper](#)

H. Phan, A. Acharya, S. Chaturvedi, [Shivam Sharma](#), M. Parker, D. Nally, A. Jannesari, K. Pazdernik, M. Halappanavar, S. Munikoti, S. Horawalavithana

Arxiv, 2024

**Foundation models of scientific knowledge for chemistry: Opportunities, challenges and lessons learned** [Paper](#)

S. Horawalavithana, E. Ayton, [Shivam Sharma](#), S. Howland, M. Subramanian, S. Vasquez, R. Cosbey, M. Glenski, S. Volkova

BigScience Workshop, 2022

**Expert: Public benchmarks for dynamic heterogeneous academic graphs** [Paper](#)

S. Horawalavithana, E. Ayton, A. Usenko, [Shivam Sharma](#), J. Eshun, R. Cosbey, M. Glenski, S. Volkova

Arxiv, 2022

**Bang for your Buck: Performance Impact Across Choices in Learning Architectures for Crisis Informatics** [Paper](#)

[Shivam Sharma](#), C. Buntain

ISCRAM, 2022

**Evaluating and explaining natural language generation with genx** [Paper](#)

K. Duskin, [Shivam Sharma](#), J.Y. Yun, E. Saldanha, D. Arendt

DaSH, 2022

**An Evaluation of Twitter Datasets from Non-Pandemic Crises Applied to Regional COVID-19 Contexts** [Paper](#)

[Shivam Sharma](#), C. Buntain

ISCRAM, 2021

**Method Comparison for Crisis Pipelines** [Paper](#)

[Shivam Sharma](#), C. Buntain

TREC-IS, 2021

**Improving Classification of Crisis-Related Social Media Content via Text Augmentation and Image Analysis** [Paper](#)

[Shivam Sharma](#), C. Buntain

TREC-IS, 2020

**Combining neural, statistical and external features for fake news stance identification** [Paper](#)

G. Bhatt, A. Sharma, [Shivam Sharma](#), A. Nagpal, B. Raman, A. Mittal

MSM, 2018

## RESEARCH EXPERIENCE

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### Data Scientist

January 2023 – Present

*Pacific Northwest National Laboratory*

*Washington, USA*

- Contributed on the research and development of domain-specific applications of Large Language Models for scientific and environmental datasets.

### Research Associate

October 2021 – December 2022

*Pacific Northwest National Laboratory*

*Washington, USA*

- Assisted in the application of Natural Language Processing techniques for data curation and post-processing tasks.

### Research Intern

September 2020 – May 2021

*Pacific Northwest National Laboratory*

*Washington, USA*

- Contributed to the evaluation and refinement of text generated by Large Language Models to enhance the detection and classification of phishing emails

### Research Assistant

October 2019 – September 2020

*New Jersey Institute of Technology*

*New Jersey, USA*

- Led research on applying Natural Language Processing techniques and Large Language Models to analyze social media posts during crisis situations.

### Research Intern

June 2017 – July 2017

*Indian Institute of Technology*

*Uttarakhand, India*

- Played a key role in research and implementation of Natural Language Processing techniques for detecting stances in fake news content.

## PROFESSIONAL ACTIVITIES

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### Conference and Journal Reviewing

- Program Committee, ER 2024
- Review Committee, PERTRA Socio-NLP 2024
- Review Committee, IEEE TAI 2023
- Review Committee, Humanities & Social Sciences Communications Journal 2023
- Review Committee, EMNLP 2023

### Invited Talks

- Lowercarbon AI Hackathon for Clean Energy, 2024

## PROGRAMMING SKILLS

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**Languages:** Python, SQL, R

**Libraries:** HuggingFace Transformers, HuggingFace Accelerate, HuggingFace Datasets, PyTorch

**Software:** Git, Docker