

# Yash Kumar Atri

Postdoc at University of Virginia

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## RESEARCH INTERESTS

I am interested in enabling language models to continuously learn and adapt beyond their initial learning. My current research explores model editing, developing methods to update language models with new information or corrections efficiently. I build modular systems that treat each update as a localized intervention, allowing the model to evolve while retaining what it already knows. My long-term vision is to build models that learn like humans, accumulating knowledge meaningfully, refining their understanding over time, and staying robust as languages, technologies, and societal values shift.

## ACADEMIC APPOINTMENTS

University of Virginia, School of Data Science

Postdoctoral Research Associate

USA

July 2024 - Now

- **Advisor:** Prof. Tom Hartvigsen
- **Topic:** Editing Large Language Models

## EDUCATION

Indraprastha Institute of Information Technology (IIIT-Delhi)

Doctor of Philosophy (Ph.D.)

Delhi, India

2020 - 2024

- **Advisors:** Prof. Vikram Goyal, Prof. Tanmoy Chakraborty
- **Thesis Title:** Advancing text summarization with conscience, comprehension, and multimodality

Jaypee University Anoopshahr

Bachelor of Technology (B.Tech.) in Computer Science and Engineering

Anoopshahr, India

2014 - 2018

- **Advisors:** Dr. Amit Kumar
- **Thesis Title:** Machine translation in Indian languages

## PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PREPRINT, T=PATENT

- P3** Yash Kumar Atri, Ahmed Alaa, Thomas Hartvigsen, [Model Editing with Graph-Based External Memory](#), Openreview Preprint (ARR) 2025
- P2** Yash Kumar Atri, Thomas H Shin, Thomas Hartvigsen, [Continually Self-Improving Language Models for Bariatric Surgery Question Answering](#), Openreview Preprint (ARR) 2025
- T.1** Simran Kalra, Yash Kumar Atri, Tanmoy Chakraborty, [SYSTEM AND METHOD FOR TEXT SUMMARIZATION](#), Application Number 202311015836, Publication Number 37/2024 (Patent)
- C.5** Yash Kumar Atri, Arun Iyer, Tanmoy Chakraborty, Vikram Goyal, [Promoting Topic Coherence and Inter-Document Consorts in Multi-Document Summarization via Simplicial Complex and Sheaf Graph](#), Conference on Empirical Methods in Natural Language Processing (EMNLP) 2023
- J.2** Yash Kumar Atri, Vikram Goyal, Tanmoy Chakraborty, [Multi-Document Summarization using Selective Attention Span and Reinforcement Learning](#), IEEE Transactions on Audio, Speech, and Language Processing (TASL) 2023
- C.4** Yash Kumar Atri, Vikram Goyal, Tanmoy Chakraborty, [Fusing Multimodal Signals on Hyper-complex Space for Extreme Abstractive Text Summarization \(TL;DR\) of Scientific Contents](#), ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD) 2023
- P1** Yash Kumar Atri, Vikram Goyal, Tanmoy Chakraborty, [Exploiting Representation Bias for Data Distillation in Abstractive Text Summarization](#), arXiv Preprint (Arxiv) 2023
- C.3** Priyanshi Gupta, Yash Kumar Atri, Apurva Nagvenkar, Sourish Dasgupta, Tanmoy Chakraborty, [Inline Citation Classification using Peripheral Context and Time-evolving Augmentation](#), Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) 2023
- C.2** Vaibhav Pulastya, Gaurav Nuti, Yash Kumar Atri, Tanmoy Chakraborty, [Assessing the Quality of the Datasets by Identifying Mislabeled Samples](#), IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) 2021
- J.1** Yash Kumar Atri\*, Shraman Pramanick\*, Vikram Goyal, Tanmoy Chakraborty, [See, Hear, Read: Leveraging Multimodality with Guided Attention for Abstractive Text Summarization](#), Elsevier Knowledge-Based Systems (KBS) 2021
- C.1** Alvin Dey\*, Tanya Chowdhury\*, Yash Kumar Atri\*, Tanmoy Chakraborty, [Corpora Evaluation and System Bias Detection in Multi-Document Summarization](#), Findings of the Association for Computational Linguistics at the Conference on Empirical Methods in Natural Language Processing (EMNLP Findings) 2020

## INVITED TALKS

Lamarr Institute NLPProc Colloquium

Talk title: Waking LLMs from CryoSleep with Continual Learning

UBonn, Germany

2025

ACM-India's Symposium for Academic Research and Careers for Students

Talk title: Fairness in Abstractive Text Summarization

NISER Bhubhaneshwar, India

2023

International Conference on Natural Language Processing (ICON)

Tutorial on Building Blocks of AI-Driven Mental Health Counseling

University of Goa, India

2023

RIISE 2024

Poster Presentation

IIIT Delhi, India

2023

## AWARDS AND ACHIEVEMENTS

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- **DAAD AInet Fellow** 2024  
*Postdoc-NeT-AI, Germany*
- **Microsoft Travel Grant, iHub-Anubhuti Travel Grant** 2023  
*For Travel to Singapore for EMNLP*
- **Microsoft Travel Grant, iHub-Anubhuti Travel Grant, ACM-India Travel Grant (IARCS)** 2023  
*For Travel to Long Beach, USA for KDD*

## INDUSTRY EXPERIENCE

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<b>Laboratory for Computational Social Systems (LCS2), IIIT Delhi</b>	Delhi, India
<i>Research Associate</i>	<i>Sep. 2019 - Dec. 2019</i>
<b>LumiQ.ai</b>	Noida, India
<i>Software Engineer (Data Science)</i>	<i>Jul. 2018 - Aug. 2019</i>
<b>LumiQ.ai</b>	Noida, India
<i>AI Engineer (Intern)</i>	<i>Feb. 2018 - Jun. 2018</i>
<b>Primelite Technologies</b>	Noida, India
<i>Data Scientist (Intern)</i>	<i>May 2017 - Jul. 2017</i>
<b>Trignosoftware Technologies</b>	Noida, India
<i>Android Developer (Virtual Intern)</i>	<i>May 2017 - Jun. 2017</i>

## TAS AND COMMUNITY WORK

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<b>Reviewer</b>	-
<i>ARR, ICLR, KBS, TASL, BDA, ICON, ASONAM</i>	-
<b>Organizer &amp; Coordinator</b>	IIIT Delhi, India
<i>BDA 2023 Conference, ICON 2023 Conference, ACSS 2022, 2021, 2020, Cofad 2020 Workshops</i>	<i>2020-2023</i>
<b>Teaching Assistant</b>	IIIT Delhi, India
<i>CSE557 (Winter 2020), CSE506 (Monsoon 2020), CSE557 (Winter 2021), CSE506 (Monsoon 2021)</i>	<i>2020-2022</i>

## REFERENCES

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1. **Prof Tom Hartvigsen**  
Assistant Professor, School of Data Science  
University of Virginia  
Email: hartvigsen@virginia.edu  
*Relationship: Postdoc Advisor*
2. **Prof Vikram Goyal**  
Professor, Dept. of Computer Science  
Indraprastha Institute of Technology Delhi (IIIT Delhi), India  
Email: vikram@iiitd.ac.in  
*Relationship: PhD Advisor*
3. **Prof Tanmoy Chakraborty**  
Associate Professor, Dept. of Electrical Engineering  
Indian Institute of Technology Delhi (IIT Delhi), India  
Email: tanchak@iitd.ac.in, chak.tanmoy.iit@gmail.com\*  
*Relationship: PhD Advisor*