

Ashish Sharma

Paul G. Allen School of Computer Science & Engineering
University of Washington

✉ ashshar@cs.washington.edu
🌐 <https://ash-shar.github.io>
🎓 Google Scholar

Education

University of Washington, Seattle, WA, USA
PhD student in Computer Science

September 2019 – Present

Indian Institute of Technology, Kharagpur, India
Dual Degree in Computer Science (Bachelor and Master of Technology)

July 2013 – June 2018

🏆 **Student-Par Excellence Award**

Research Experience

University of Washington, Seattle, WA, USA
Research Assistant
Advisor: [Prof. Tim Althoff](#)

September 2019 – Present

Microsoft Research, Bengaluru, India
Research Fellow
Advisor: [Dr. Monojit Choudhury](#)

July 2018 – Aug 2019

University of Illinois at Urbana-Champaign, Urbana, IL, USA
Research Intern
Advisor: [Prof. Hari Sundaram](#)

May 2017 – July 2017

Adobe Systems, Bengaluru, India
Research Intern
Advisor: [Dr. Sunav Choudhary](#)

May 2016 – July 2016

Indian Institute of Technology, Kharagpur, India
Research Assistant
Advisor: [Prof. Niloy Ganguly](#)

Jan 2016 – June 2018

Selected Publications

Towards Facilitating Empathic Conversations in Online Mental Health Support: A Reinforcement Learning Approach

🏆 **Best Paper Award**

Ashish Sharma, Inna Lin, Adam S. Miner, David C. Atkins, and Tim Althoff
The Web Conference 2021 [WWW'21] [pdf] [talk] [video] [project page]

A Computational Approach to Understanding Empathy Expressed in Text-Based Mental Health Support

Ashish Sharma, Adam S. Miner, David C. Atkins, and Tim Althoff
The 2020 Conference on Empirical Methods in Natural Language Processing [EMNLP'20] [pdf] [talk] [project page]

Engagement Patterns of Peer-to-Peer Interactions on Mental Health Platforms

Ashish Sharma, Monojit Choudhury, Tim Althoff, and Amit Sharma
14th International AAAI Conference on Web and Social Media [ICWSM'20] [pdf] [talk]

Going Beyond Content Richness: Verified Information Aware Summarization of Crisis-Related Microblogs

Ashish Sharma, Koustav Rudra, and Niloy Ganguly
28th ACM International Conference on Information and Knowledge Management [CIKM'19] [pdf]

Insights from the Long-Tail: Learning Latent Representations of Online User Behavior in Presence of Skew & Sparsity

Adit Krishnan, **Ashish Sharma**, and Hari Sundaram
27th ACM International Conference on Information and Knowledge Management [CIKM'18a] [pdf] [code]

An Adversarial Approach to Improve Long-Tail Performance in Neural Collaborative Filtering [Short Paper]

Adit Krishnan, **Ashish Sharma**, Aravind Sankar, and Hari Sundaram
27th ACM International Conference on Information and Knowledge Management [CIKM'18b] [pdf] [code]

🏆 Best Academic Demo Award

Ashish Sharma, J. Arora, P. Khan, S. Satapathy, S. Agarwal, S. Sengupta, S. Mridha, and N. Ganguly
Demo & Exhibits Session, 9th Intl. Conf. on Communication Systems & Networks [COMSNETS'17] [[link](#)] [[video](#)]

Achievements & Awards

- **Best Paper Award** at TheWebConf/WWW 2021 (*given to a single paper out of 1700+ submissions*)
- **Student Par-Excellence Award** by Computer Science Department, IIT Kharagpur
- **Goralal Syngal Memorial Scholarship** for academic excellence during 2015-2016
- **Best Academic Demo Award** at COMSNETS 2017
- **S.N. Bose Scholarship** for a summer internship at UIUC in 2017 (*one of the 50 scholars from India*)

Invited Talks

Issaquah High School Artificial Intelligence Club <i>Human-AI Collaboration to Encourage Empathic Conversations in Mental Health Support</i>	Nov 22, 2021
Research Running on Cloud Compute & Emerging Technologies, 2021 <i>Leveraging Cloud Compute for Improving Empathy in Mental Health Support</i>	Aug 10, 2021
Crime Lab, University of Chicago <i>Towards Facilitating Empathic Conversations in Online Mental Health Support</i>	Feb 26, 2021
University of Connecticut <i>NLP for Mental Health</i>	Mar 2, 2020

Teaching Experience

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|---|-------------|
| • Head TA, CSE547: Machine Learning for Big Data, University of Washington | Spring 2021 |
| • Head TA, CSE547: Machine Learning for Big Data, University of Washington | Spring 2020 |
| • TA, CS29003: Algorithms Laboratory, Indian Institute of Technology, Kharagpur | Spring 2018 |
| • TA, CS31003: Compilers, Indian Institute of Technology, Kharagpur | Fall 2017 |

Technical Skills

Programming Languages	C, C++, Python
Machine Learning Tools	NumPy, Pandas, Scikit-Learn, Gensim, Matlab, Tensorflow, PyTorch
Databases	MySQL, PostgreSQL, Hadoop, Spark, Snowflake
Web Stack	HTML, CSS, PHP, JavaScript, jQuery, Django

Relevant Coursework

AI	Speech & Natural Language Processing, Machine Learning, Deep Learning, Artificial Intelligence, Interactive Learning
Data Mining	Information Retrieval, Scalable Data Mining, Social Computing, Economic & Financial Network Analysis
Systems	Distributed Systems, Database Management Systems, Cloud Computing
Miscellaneous	Big & Small Data for Health, Smartphone Computing & Applications, Image Processing, Probability & Statistics, Operations Research