








## Education


- January 2020 - Present (3rd year)  **Ph.D. CSE**, Indraprastha Institute of Technology (IIIT) Delhi: CGPA 8.73/10  
Thesis Topic: *Hate Speech Detection and Diffusion on Social Platforms*.  
Funding: **Prime Minister Doctoral Fellowship**, SERB, Govt. of India
- July 2012 - May 2016  **B.Tech CSE**, Jamia Millia Islamia: CGPA 9.5/10  
Thesis: *Fuzzy Taxonomy Extraction on Big Data*.

## Publications



### Conference/Journals

- 1 Garg, T., **Masud, S.**, Suresh, T., & Chakraborty, T. (2022). Handling bias in toxic speech detection: A survey (**Under Review at ACM Computing Surveys**). arXiv: 2202.00126 [cs.SI]
- 2 **Masud, S.**, Bedi, M., Khan, M. A., Akhtar, M. S., & Chakraborty, T. (2022). Proactively reducing the hate intensity of online posts via hate speech normalization (**KDD'22**).  doi:10.48550/ARXIV.2206.04007
- 3 Sahnian, D., Goel, V., **Masud, S.**, Jain, C., Goyal, V., & Chakraborty, T. (2022). Diva: A scalable, interactive and customizable visual analytics platform for information diffusion on large networks (**ACM TKDD**). arXiv: 2112.06267
- 4 Gautam, A., Venkatesh, V., & **Masud, S.** (2021). Fake news detection system using xlnet model with topic distributions. In *Combating online hostile posts in regional languages during emergency situation (Shared Task, CONSTRAINT'21, AAAI)* (pp. 189–200). Retrieved from  [https://doi.org/10.1007/978-3-030-73696-5\\_18](https://doi.org/10.1007/978-3-030-73696-5_18)
- 5 **Masud, S.**, Dutta, S., Makkar, S., Jain, C., Goyal, V., Das, A., & Chakraborty, T. (2021). Hate is the new infodemic: A topic-aware modeling of hate speech diffusion on twitter. In *2021 IEEE 37th International Conference on Data Engineering (ICDE'21)* (pp. 504–515).  doi:10.1109/ICDE51399.2021.00050
- 6 Dutta, S., **Masud, S.**, Chakrabarti, S., & Chakraborty, T. (2020). Deep exogenous and endogenous influence combination for social chatter intensity prediction. In *Proceedings of the 26th sigkdd international conference on knowledge discovery & data mining (KDD'20)* (pp. 1999–2008).  doi:10.1145/3394486.3403251
- 7 Ahmad, T., Ahmad, R., **Masud, S.**, & Nilofer, F. (2016). Framework to extract context vectors from unstructured data using big data analytics. In *2016 Ninth International Conference on Contemporary Computing (IC3'16)* (pp. 1–6).  doi:10.1109/IC3.2016.7880229

### Patents

- 1 Gupta, A., Shah, A., & **Masud, S.** (U.S. Patent US10996944B2, May 2021). Automated software selection using matrix factorization. Retrieved from  <https://patents.google.com/patent/US10996944B2>

### Miscellaneous




- 1 Chakraborty, T., & **Masud, S.** (2022). Nipping in the bud: Detection, diffusion and mitigation of hate speech on social media. *SIGWEB Newsl.*, (Winter).  doi:10.1145/3522598.3522601
- 2 **Masud, S.**, Pinkesh, P., Das, A., Gupta, M., Nakov, P., & Chakraborty, T. (2022). Half-day tutorial on combating online hate speech: The role of content, networks, psychology, user behavior, etc. **WSDM '22**, 1629–1631.  doi:10.1145/3488560.3501392

## Work Experience

### Research

- August 2019 – December 2019  **Research Associate**, LCS2, IIIT Delhi, Delhi
- March 2019 - May 2019  Policy Research Intern, WERP India Pvt. Ltd., Remote

### Engineering

- November 2016 - September 2018  **Data Scientist/Engineer**, Red Hat, Bangalore
- June 2016 - October 2016  Intern, Red Hat, Bangalore
- June 2015 - July 2015  Intern, DecisionStats, New Delhi
- September 2014 - February 2015  Intern, Mozilla Winter of Security, Remote

### Pro Bono

- February 2020 - Present  **Reviewer, Journal of Open Source Software**, Remote [Packages Reviewed](#)
- May 2016 - Present  Member & Volunteer, AnitaB Organization, Remote

## Miscellaneous

### Teaching Assistant


January 2021 - May 2021  CSE559, Mining Large Networks (Graduate Level), IIIT Delhi, Delhi

### Scholarships & Grants


2020-2023  **Prime Minister Doctoral Fellowship**, SERB, **Government of India**

2022  **ACM-W, Microsoft Travel Grant**, KDD 2022


20{20, 21, 22}  **ACM SIGIR Student Registration Awards**, [ KDD 2022, WSDM 2021, KDD 2020]


2021  Carolyn Leighton Conference Scholarship, WITI APAC Summit'21


2017  Google Travel Grant, Grace Hopper Conference USA

2012-2014  University Merit Scholarships, Computer Engg. Department, Jamia Millia Islamia


### Graduate Symposiums

2022  Research Week with Google India (Remote), Eastern European Machine Learning Summer School (Remote)

2021  Eastern European Machine Learning Summer School (Remote)

2020  ACM-W Grad Cohort India (Remote)

### Academic Conferences


**Conference Reviewer**  **COLING 2022, ACL 2022, CONSTRAINT Workshop** {22, 21};

Journal Reviewer  Neurocomputing Journal


Student Volunteer  KDD 2022, AAI 2021; CODS-COMADS 2021; KDD 2020

**Tutorials Conducted**  **ECML-PKDD 2021; WSDM 2022**

### Industry Conferences


Reviewer  GHC USA {20, 19}; GHC India {16 – 20}; Scipy USA {18 – 20}; PyOhio 2019


### Open Source Contributions

Mentor  GCI 2019; GSoC 2018; GSSoC 2018; Learn IT Girl 2017; OSD@GHC USA 2017


Maintainer  First Contributors (2018-Present)

### Technical Writing Contributions

Books  Contributed to the chapter on Dynamics of Fake News Diffusion in the book Data Science for Fake News. [Book](#)

 Contributed to the chapters on Link Prediction and Link Analysis in the book Social Network Analysis. [Book](#)

Blogs  Handling Bias in Toxic Speech Detection, Montreal Ethics Newsletter [Link](#)

 Automatic categorization of offensive and hateful comments in Hindi. [Link](#)

 Visualizing Hate Speech Diffusion. [Link](#)

 MapReduce - Approach and Features. [Link](#), [Link](#)