

Punyajoy Saha

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Online presence:
[Linked in](#), [Researchgate](#), [Github](#)
Website: <https://punyajoy.github.io/>

Research Experiences

MAY 2022 - AUG 2022

- **Language Technology Group, University of Hamburg, Germany**–Intern, working on creating a human in the loop counterspeech generation pipeline

MAY 2019 - DEC 2019

- **CNeRG Lab, IIT Kharagpur**– JRF sponsored by the project “Cognitive Stimuli: Detecting and Generating Exaggeration in Online and Social Media Content” (CSAM).

AUGUST 2019 - SEPTEMBER 2019

- **Language Technology Group, University of Hamburg, Germany**–Intern, worked on developing the backend for Forum 4.0 project on providing a text analytics software for journalist

MAY 2018 - APRIL 2019

- **CNeRG Lab, IIT Kharagpur**–Intern, worked on Detection of Hate Speech in Online Social Networks.

MAY 2017 - JULY 2017

- **Neurocomputing Lab, IIT Delhi** –Intern, worked on Analysis of Hindi letters and Hindi documents comprehension using Eye Tracking.

Education

JAN 2020 - Present

Indian Institute of Technology, Kharagpur – 3rd year Ph.D. student, Computer Science, and Engineering, IIT Kharagpur.

- CGPA during the course - 9.13
- Member of CNeRG lab.
- Working on analysis, detection, and countering hate speech and similar toxic language in social media.

JULY 2015 - MAY 2019

Indian Institute of Engineering Science and Technology, Shibpur – B.Tech in Computer Science and Technology

- Graduated with CGPA of 8.93
- Computer Vision Head at Robodarshan, the robotics club of Indian Institute of Engineering, Science and Technology Shibpur(2017-18)
- BTech Project - Application of Generative Adversarial Networks for Wallpaper Generation on Digital Devices ([Link](#))

Awards and Achievements

- Won Ted Nelson newcomer award for “You too Brutus! Trapping Hateful Users in Social Media: Challenges, Solutions & Insights” at ACM Hypertext 2021.
- 1st in both subtasks of Abusive and Threatening Language Detection for Tweets in Urdu: Abusive Language Detection at FIRE 2021. [Link](#)

- Received [PMRF scholarship](#) for supporting my PhD.
- 1st, 2nd and 1st Rank in different languages in Offensive shared task at [DravidianLangTech-2021](#) ([preprint](#), [code](#))
- World Rank 11 in Facebook Hatememe detection competition ([link](#))
- Winner of the worldwide Facebook+Social Science One data [grant](#).
- Winner of offensive speech detection competition for the German language at [HASOC 2019](#).
- The preprint "Hateminers: Detecting hatespeech against women" got recognised as the best preprint of the week. [See here](#)
- Winner of the misogynistic text classification competition for the English language in [AMI Evalita-2018](#). ([preprint](#), [code](#))

Publications

1. The paper "Multilingual Abusive Comment Detection at Scale for Indic Languages" was accepted at [NeurIPS 2022 Datasets and Benchmarks](#) ([paper](#), [code](#)).
2. The paper "Hate speech and Offensive Language Detection in Bengali" were accepted at [AAACL-IJCNLP 2022](#) ([paper](#), [code](#))
3. The paper "COUNTERGEDII: A controllable approach to generate politely, detoxified, and emotional counterspeech was accepted at [IJCAI-ECAI 2022](#). ([paper](#), [code](#))
4. The paper "You too, Brutus! Trapping Hateful Users in Social Media: Challenges, Solutions & Insights" was accepted at [ACM hypertext 2021](#). ([paper](#), [code](#))
5. The paper "Hate-Alert@DravidianLangTech-EACL2021: Ensembling strategies for Transformer-based Offensive language Detection" was accepted at First [Workshop on Speech and Language Technologies for Dravidian Languages, EACL 2021](#). ([paper](#), [code](#))
6. The paper "Short is the Road that Leads from Fear to Hate": Fear Speech in Indian WhatsApp Groups" was accepted at [The Web Conference-2021](#) (erstwhile WWW) ([paper](#), [code](#))
7. The paper "HateXplain: A Benchmark Dataset for Explainable Hate Speech Detection" was accepted at [AAA1-2021](#) ([paper](#), [code](#))
8. The paper "Using Knowledge Graphs to Improve Hate Speech Detection" was accepted at [CODS COMAD YSR 2021](#)
9. The paper "Hate begets Hate: A Temporal Study of Hate speech" was accepted at [CSCW 2020](#) ([paper](#), [code](#))
10. The paper "Deep learning models for multilingual hate speech detection" was accepted at [ECML-PKDD 2020](#) ([paper](#), [code](#))
11. The paper "HateMonitors: Language Agnostic AbuseDetection in Social Media" was accepted at HASOC track in [FIRE 2019](#), Kolkata. ([paper](#), [code](#))
12. The paper "Thou shalt not hate: Countering Online Hatespeech" was accepted at the international conference- [ICWSM-2019](#), Munich, Germany. ([paper](#), [code](#)).
13. The paper "Effect of Devanagari Font Type in Reading Comprehension: An Eye-Tracking Study" was presented at the international conference [IHCI-2018](#), Allahabad, India. [Paper](#).
14. The paper "Document categorisation using graph structuring" was presented at the international conference [ICCACP-2017](#), Sikkim, India. [Paper](#)

Talks and Tutorials

- Tutorial on “Hate speech: Detection, Mitigation and Beyond” accepted at AAAI 2022. [Link](#)
- The paper “Short is the Road that Leads from Fear to Hate”: Fear Speech in Indian WhatsApp Groups” will be presented at [IC2S2](#) and [ARCS](#) ([preprint](#), [code](#))
- Invited talk in Understanding and Automating Counterspeech workshop, 2021 organized by CRASSH
- Tutorial on “Hate speech: Detection, Mitigation and Beyond” accepted at ICWSM 2021. [Link](#)
- Invited talk on the topic of “Generative Adversarial Network” IEST, Shibpur, 2020. [Link](#)