

Suman Adhya

Ph.D. Candidate, School of Mathematical & Computational Sciences, IACS

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RESEARCH INTERESTS

Mechanistic Interpretability • Topic Modeling • Natural Language Processing • Machine Learning

EDUCATION

- 2020 - Present Ph.D., Computer Science, **IACS**, India (*Thesis submitted for review on 18th September, 2025*)
- 2018 - 2020 M.Sc., Mathematics & Computing, **IACS**, India
- 2015 - 2018 B.Sc. (Honours), Mathematics, **Serampore College**, University of Calcutta, India

PUBLICATIONS

For a complete and up-to-date list of publications, please see my [Google Scholar profile](#).

Journal Articles

- **Suman Adhya**, Avishek Lahiri, Debarshi Kumar Sanyal, and Partha Pratim Das. [Evaluating Negative Sampling Approaches for Neural Topic Models](#). **IEEE-TAI**. 2025. [💬 Code]

Conference Proceedings

- **Suman Adhya** and Debarshi Kumar Sanyal. [DTECT: Dynamic Topic Explorer & Context Tracker](#). **AAAI**. 2026 (Demonstration). [💬 Code] • [🌐 Live Demo]
- **Suman Adhya** and Debarshi Kumar Sanyal. [S2WTM: Spherical Sliced-Wasserstein Autoencoder for Topic Modeling](#). **ACL**. 2025. [💬 Code]
- **Suman Adhya** and Debarshi Kumar Sanyal. [GINopic: Topic Modeling with Graph Isomorphism Network](#). **NAACL**. 2024. [💬 Code]
- **Suman Adhya**, Avishek Lahiri, and Debarshi Kumar Sanyal. [Do Neural Topic Models Really Need Dropout? Analysis of the Effect of Dropout in Topic Modeling](#). **EACL**. 2023. [💬 Code]
- **Suman Adhya** and Debarshi Kumar Sanyal. [Improving Neural Topic Models with Wasserstein Knowledge Distillation](#). **ECIR**. 2023. [💬 Code]
- **Suman Adhya**, Avishek Lahiri, Debarshi Kumar Sanyal, and Partha Pratim Das. [Improving Contextualized Topic Models with Negative Sampling](#). **ICON**. 2022. [💬 Code]

Workshop Proceedings

- **Suman Adhya** and Debarshi Kumar Sanyal. [What Does the Indian Parliament Discuss? An Exploratory Analysis of the Question Hour in the Lok Sabha](#). **PoliticalNLP @ LREC**. 2022. [💬 Code]

SYMPOSIA, AND RESEARCH MEETINGS

- PIC 2025, Lightning Talk and Poster Presentation Feb 2025, Mysore, India
- PIC 2024, Poster Presentation Feb 2024, Mysore, India
- Research Week with Google 2024 Feb 2024, Bangalore, India
- CODS-COMAD Jan 2024, IIIT Bangalore, India

GRANTS AND SCHOLARSHIPS

- ACM India-IARCS Travel Grant, 2025. Awarded for presenting our paper at ACL 2025 held in Vienna, Austria.
- ANRF-International Travel Support, 2025. Awarded for presenting our paper at ACL 2025 held in Vienna, Austria.
- ACM India Research Facilitation Grant, 2025. Awarded to cover the extra page charges of our paper at IEEE-TAI.
- Microsoft Research Travel Grant, 2024. Awarded for presenting at NAACL 2024, Mexico City, Mexico (unable to attend due to visa rejection).
- ACM India-IARCS Travel Grant, 2024. Awarded for presenting our paper at NAACL 2024 held in Mexico City, Mexico (used for conference registration).
- Microsoft Research Travel Grant, 2023. Awarded for presenting our paper at EACL 2023 held in Dubrovnik, Croatia.
- Travel Grant for EACL, 2023. Received support as a Volunteer Coordinator (registration covered) and as part of the D&I team (accommodation covered) while presenting our paper at EACL 2023 held in Dubrovnik, Croatia.
- The INSPIRE-SHE Award, DST, 2015-2018. Awarded for securing a top-1% rank in Class 12th examinations.

ACADEMIC SERVICE

- **Conference Reviewer:**
System Demonstration Tracks (EACL 2025, IJCNLP–ACL 2025, EMNLP 2025)
Industry Tracks (EMNLP 2025, EMNLP 2024, NAACL 2025)
ACL Rolling Review (2023–2025)
ACL 2023; EMNLP 2022.
- **Workshop Reviewer:** PoliticalNLP Workshop @ LREC (2022, 2024).
- **Student Volunteer:** EACL 2023.

TEACHING EXPERIENCE

- **Teaching Assistant:**
 - *Introduction to Machine Learning* January - June, 2024
 - *Laboratory - Numerical Methods* January - June, 2021

- **Mentor:** Mentored 3 Master's students in their Master's theses
 - Gyana Ranjan Nayak *April, 2023 - July, 2024*
 - Avishek Lahiri *August, 2021 - July, 2022*
 - Kaustav Mallick *August, 2020 - July, 2021*

COMMUNITY SERVICE

- Student Representative, Anti-Ragging Cell, IACS *2023 - Current*
- Research and Technical Assistant, Research Scholars Association, IACS *2023 - 2024*
- System Manager, Research Scholars Association, IACS *2022 - 2023*

REFERENCES

- **Dr. Debarshi Kumar Sanyal** (*Ph.D. Thesis Advisor*)
Email: debarshi.sanyal@iacs.res.in
- **Dr. Partha Basuchowdhuri** (*Master's Thesis Advisor*)
Email: partha.basuchowdhuri@iacs.res.in