

Suman Adhya

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

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RESEARCH INTERESTS

Topic Modeling • Natural Language Processing • Machine Learning

WORK EXPERIENCE

Research Associate – I Sep 2025 - present
Indian Association for the Cultivation of Science (IACS), Kolkata

EDUCATION

2020 – 2025 **Ph.D., Computer Science, IACS**, India (*Thesis defended: 15 January 2026*)
Thesis Title: *Studies on Neural Topic Models for Document Corpora*

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. [QR Code]

Conference Proceedings

- **Suman Adhya** and Debarshi Kumar Sanyal. [DTECT: Dynamic Topic Explorer & Context Tracker. AAAI](#). 2026 (Demonstration). [QR Code] • [LIVE DEMO]
- **Suman Adhya** and Debarshi Kumar Sanyal. [S2WTM: Spherical Sliced-Wasserstein Autoencoder for Topic Modeling. ACL](#). 2025. [QR Code]
- **Suman Adhya** and Debarshi Kumar Sanyal. [GINopic: Topic Modeling with Graph Isomorphism Network. NAACL](#). 2024. [QR 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. [QR Code]
- **Suman Adhya** and Debarshi Kumar Sanyal. [Improving Neural Topic Models with Wasserstein Knowledge Distillation. ECIR](#). 2023. [QR Code]
- **Suman Adhya**, Avishek Lahiri, Debarshi Kumar Sanyal, and Partha Pratim Das. [Improving](#)

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 Reviewing:
 - System Demonstrations: EACL 2025; IJCNLP–ACL 2025; EMNLP 2025
 - Industry Tracks: EMNLP 2024–2025; NAACL 2025
 - ACL Rolling Review: 2023–2025
 - Main Conferences: ACL 2023; EMNLP 2022

- **Workshop Reviewing:** PoliticalNLP Workshop @ LREC (2022, 2024)
- **Student Volunteering:** 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*)
Associate Professor, School of Mathematical & Computational Sciences, IACS
Email: debarshi.sanyal@iacs.res.in *Contact:* +91 33 2473 4971 (Ext. 2334)
- **Dr. Partha Basuchowdhuri** (*Master's Thesis Advisor*)
School Chair & Associate Professor, School of Mathematical & Computational Sciences, IACS
Email: partha.basuchowdhuri@iacs.res.in *Contact:* +91 33 2473 4971 (Ext. 2372)