

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 Jan 2026 - 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. [[🐙 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](#)

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–AAACL 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)