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

Conference Proceedings

- **Suman Adhya** and Debarshi Kumar Sanyal. DTECT: Dynamic Topic Explorer & Context Tracker.. ***AAAI***. 2026.

- **Suman Adhya** and Debarshi Kumar Sanyal. S2WTM: Spherical Sliced-Wasserstein Autoencoder for Topic Modeling. ***ACL***. 2025

- **Suman Adhya** and Debarshi Kumar Sanyal. GINopic: Topic Modeling with Graph Isomorphism Network. ***NAACL***. 2024

- **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

- **Suman Adhya** and Debarshi Kumar Sanyal. Improving Neural Topic Models with Wasserstein Knowledge Distillation. ***ECIR***. 2023.

- **Suman Adhya**, Avishek Lahiri, Debarshi Kumar Sanyal, and Partha Pratim Das. Improving Contextualized Topic Models with Negative Sampling. ***ICON***. 2022.

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

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   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–AACL 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

- **Prof. Partha Pratim Das** (*Collaborator*)
  Email: ppd@ashoka.edu.in

- **Dr. Partha Basuchowdhuri** (*Master's Thesis Advisor*)
  Email: partha.basuchowdhuri@iacs.res.in