

Suman Adhya

PhD Scholar at SMCS in IACS

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i Short Bio

A fourth-year Ph.D. student at SMCS in IACS, under the supervision of Dr. Debarshi Kumar Sanyal. I am currently working in the field of NLP, specifically on topic models that are used to extract topics from document corpora in an unsupervised manner.

🏛 Education

Oct 2020 Sep 2025*	Indian Association for the Cultivation of Science Ph.D. from the School of Mathematical & Computational Sciences (SMCS)	Kolkata, India
Aug 2018 Jul 2020	Indian Association for the Cultivation of Science M.Sc. in Mathematics & Computing from SMCS	Kolkata, India
2015 2018	Serampore College, University of Calcutta B.Sc.(Hons.) in Mathematics	Kolkata, India

📖 Publications


J=Journal, C=Conference, W=Workshop


- [J] **Evaluating Negative Sampling Approaches for Neural Topic Models** (Proofreading stage)
Suman Adhya, Avishek Lahiri, Debarshi Kumar Sanyal, and Partha Pratim Das
IEEE Transactions on Artificial Intelligence [IEEE-TAI]
- [C] **GINopic: Topic Modeling with Graph Isomorphism Network** [🔗]
Suman Adhya and Debarshi Kumar Sanyal
North American Chapter of the Association for Computational Linguistics, Mexico City, Mexico [NAACL'24]
- [C] **Do Neural Topic Models Really Need Dropout? Analysis of the Effect of Dropout in Topic Modeling** [🔗]
Suman Adhya, Avishek Lahiri, and Debarshi Kumar Sanyal
17th European Chapter of the Association for Computational Linguistics, Dubrovnik, Croatia [EACL'23]
- [C] **Improving Neural Topic Models with Wasserstein Knowledge Distillation** [🔗]
Suman Adhya and Debarshi Kumar Sanyal
45th European Conference on Information Retrieval, Dublin, Ireland [ECIR'23]
- [C] **Improving Contextualized Topic Models with Negative Sampling** [🔗]
Suman Adhya, Avishek Lahiri, Debarshi Kumar Sanyal, and Partha Pratim Das
19th International Conference on Natural Language Processing, New Delhi, India [ICON'22]
- [W] **What Does the Indian Parliament Discuss? An Exploratory Analysis of the Question Hour in the Lok Sabha** [🔗]
Suman Adhya and Debarshi Kumar Sanyal
1st Workshop on Natural Language Processing for Political Sciences, LREC, Marseille, France [PoliticalNLP @ LREC'22]


🗣 Presentations


- > PIC 2024, Poster Presentation 📄 Feb 2024 (Mysore, India)
- > EACL 2023, Poster Presentation 📄 May 2023 (Dubrovnik, Croatia)
- > ECIR 2023, Short Paper Presentation 📄 March 2023 (Virtual)
- > ICON 2022, Full Paper Presentation 📄 December 2022 (IIIT-Delhi, India)
- > PoliticalNLP @ LREC 2022, Poster Presentation 📄 June 2022 (Virtual)


Travel Grants and Awards

Travel Grant for Research Week with Google, 2024  : Awarded for attending Research Week with Google, a three-day lineup of research lectures, panels, and discussions led by esteemed researchers.

Travel Grant for PIC, 2024  : Awarded for attending flagship research networking event of ACM India held in the Infosys Mysore campus, India.

Travel Grant for CODS-COMAD, 2024  : Awarded for attending the 7th Joint International Conference on Data Sciences and Management of Data to be held in IIIT Bangalore, India.

Microsoft Research Travel Grant, 2023  : Awarded for presenting our paper at EACL'23 held in Dubrovnik, Croatia.

Travel Grant for EACL, 2023  : Awarded for presenting our paper at EACL'23 held in Dubrovnik, Croatia.

Innovation in Science Pursuit for Inspired Research (INSPIRE), DST, 2015  : Awarded for pursuing higher education in science.

Teaching Assistant

Introduction to Machine Learning [PHD 226/ COM 4203], IACS January - June, 2024

> Responsibilities included setting and evaluating assignments.

Laboratory - Numerical methods (PHS 4211), IACS January - June, 2021

> Responsibilities included setting and evaluating lab assignments.

Academic Responsibility

Volunteer coordinator [EACL'23](#) 

Review committee member [ARR - April'24](#) , [ARR - February'24](#) , [ACL'23](#) , [EMNLP'22](#) 

Program committee member [PoliticalNLP'24](#) , [EMNLP'23 Industry Track](#) , [PoliticalNLP'22](#) 

Social Responsibility

Student representative at the anti-ragging cell in IACS

Research and technical assistant at Research Scholars' Association in IACS

System manager at Research Scholars' Association in IACS