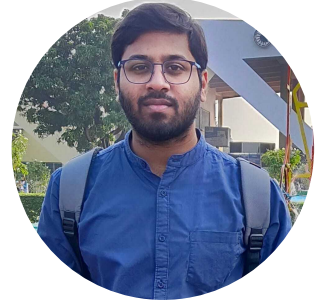


Suman Adhya

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** [🔗]
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]

⚙ Skills





Research Interests	NLP - Topic Modeling, Machine Learning - Variational Inference, Information Theory - Rate-Distortion Theory
Technical Expertise	Python, PyTorch and PyG, Deep Graph Library, TensorFlow, Git

Presentations

- > NAACL 2024, Poster Presentation 
- > PIC 2024, Poster Presentation 
- > EACL 2023, Poster Presentation 
- > ECIR 2023, Short Paper Presentation 
- > ICON 2022, Full Paper Presentation 
- > PoliticalNLP @ LREC 2022, Poster Presentation 

June 2024 (Virtual)
Feb 2024 (Mysore, India)
May 2023 (Dubrovnik, Croatia)
March 2023 (Virtual)
December 2022 (IIIT-Delhi, India)
June 2022 (Virtual)












Travel Grants and Awards

Microsoft Research Travel Grant, 2024  : Awarded for presenting our paper at NAACL'24 held in Mexico City, Mexico.
ACM India-IARCS Travel Grant, 2024  : Awarded for presenting our paper at NAACL'24 held in Mexico City, Mexico.
Microsoft Research Travel Grant, 2023  : Awarded for presenting our paper at EACL'23 held in Dubrovnik, Croatia.
The INSPIRE-SHE Award, DST, 2015-2018  : Awarded for securing a top 1% rank in Class 12th examinations.

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	EMNLP'24 Industry Track  , ARR - June'24  , 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