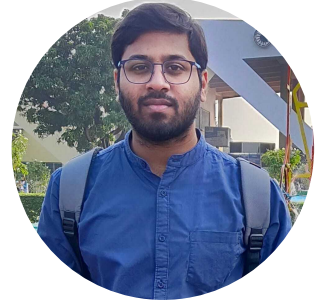


# Suman Adhya

## 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*	<b>Indian Association for the Cultivation of Science</b> Ph.D. from the School of Mathematical & Computational Sciences (SMCS)	Kolkata, India
Aug 2018 Jul 2020	<b>Indian Association for the Cultivation of Science</b> M.Sc. in Mathematics & Computing from SMCS	Kolkata, India
2015 2018	<b>Serampore College, University of Calcutta</b> 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

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


## Presentations


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- |   |                                   |
|---|-----------------------------------|
| > NAACL 2024, Poster Presentation                | June 2024 (Virtual)               |
| > 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

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**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

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<b>Introduction to Machine Learning [PHD 226/ COM 4203], IACS</b>	January - June, 2024
> Responsibilities included setting and evaluating assignments.	
<b>Laboratory - Numerical methods (PHS 4211), IACS</b>	January - June, 2021
> Responsibilities included setting and evaluating lab assignments.	

## Academic Responsibility

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<b>Volunteer coordinator</b>	EACL'23 
<b>Review committee member</b>	EMNLP'24 Industry Track  , ARR - June'24  , ARR - April'24  , ARR - February'24  , ACL'23  , EMNLP'22 
<b>Program committee member</b>	PoliticalNLP'24  , EMNLP'23 Industry Track  , PoliticalNLP'22 

## Social Responsibility

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<b>Student representative at the anti-ragging cell in IACS</b>	2023 - Current
<b>Research and technical assistant at Research Scholars' Association in IACS</b>	2023-2024
<b>System manager at Research Scholars' Association in IACS</b>	2022-2023