

# Dr. Alapan Kuila

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## About

I am currently an Assistant Professor at IIITDM Kurnool, where I joined in January 2026. I worked for a brief period at IIT Delhi as a Research Scientist on LLM evaluation methods for reasoning and climate data analytics. Prior to that, I completed my PhD in Computer Science and Engineering at IIT Kharagpur, where my research focused on multi-dimensional news content analysis, including event extraction, salient entity and aspect identification, sentiment classification, and media bias prediction and mitigation using NLP and Information Extraction frameworks with zero-shot and few-shot learning.

## Research Area

Machine Learning, Deep Learning, LLM, Natural language processing (NLP), Information Extraction (IE), Generative AI, Data Analytics, Computational Social Science.

## Education

- 2016 – 2024 **Ph.D. from IIT Kharagpur** Natural Language Processing.  
Thesis title: *Decoding News Narratives: A Journey Through NLP Techniques in Content Analysis*
- 2013 – 2015 **M.E. in Computer Sc and Eng, Jadavpur University**
- 2009 – 2013 **B.Tech. in Computer Science and Engineering, West Bengal University of Technology**

## Research Publications

- Alapan Kuila**, Somnath Jena, Sudeshna Sarkar, and Partha Pratim Chakrabarti. “News has various shades: Quantifying and Analyzing Media Bias at Aspect-level Granularity”. **ACM Journal on Computing and Sustainable Societies, 2024**.
- Alapan Kuila** and Sudeshna Sarkar. “From Text to Context: An Entailment Approach for News Stakeholder Classification”. In Proceedings of the 47th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR 2024**).
- Alapan Kuila** and Sudeshna Sarkar. “Deciphering Political Entity Sentiment in News with Large Language Models: Zero-Shot and Few-Shot Strategies”. In Proceedings of the Second Workshop on Natural Language Processing for Political Sciences (**PoliticalNLP @ LREC-COLING 2024**).
- Alapan Kuila**, Somnath Jena, Sudeshna Sarkar, Partha Pratim Chakrabarti. “Analyzing Sentiment Polarity Reduction in News Presentation through Contextual Perturbation and Large Language Models”. 20th International Conference on Natural Language Processing (**ICON-2023**).
- Alapan Kuila** and Sudeshna Sarkar. “If you build they will come: Automatic Identification of News-Stakeholders to detect Party Preference in News Coverage”. The AAAI 2023 Second Workshop on AI for Credible Elections: A Call To Action with Trusted AI (**AI4CE Workshop at AAAI 2023**).
- Alapan Kuila** and Sudeshna Sarkar. 2022. “PESE: Event Structure Extraction using Pointer Network based Encoder-Decoder Architecture”. In Proceedings of the 2nd Conference of the Asia-Pacific

Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing (Volume 1: Long Papers), pages 1091–1100, Online only. Association for Computational Linguistics (**AAACL-IJCNLP 2022**).

7. **Alapan Kuila**, Ayan Das, and Sudeshna Sarkar. "A Graph Convolution Network-based System for Technical Domain Identification". In Proceedings of the 17th International Conference on Natural Language Processing (ICON): **TechDOfication 2020 Shared Task, ICON 2020**.
8. **Alapan Kuila**, Sarath chandra Bussa, and Sudeshna Sarkar. "A Neural Network based Event Extraction System for Indian Languages". Forum for Information Retrieval Evaluation, 2018 (**Working Notes, FIRE 2018**).
9. **Alapan Kuila** and Sudeshna Sarkar. "An Event Extraction System via Neural Networks". Forum for Information Retrieval Evaluation (**Working Notes, FIRE 2017**).
10. Koushik Pahari, **Alapan Kuila**, Santanu Pal, Sudip Kumar Naskar, Sivaji Bandyopadhyay and Josef van Genabith. "JU-USAAR: A Domain Adaptive MT System." **WMT (2016)**.
11. Somnath Banerjee, **Alapan Kuila**, Aniruddha Roy, Sudip Kumar Naskar, Paolo Rosso, and Sivaji Bandyopadhyay. A Hybrid Approach for Transliterated Word-Level Language Identification: CRF with Post-Processing Heuristics. In Proceedings of the Forum for Information Retrieval Evaluation (**FIRE 2014**),

## Skills

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Coding	📌	Python, C
Toolbox	📌	Pytorch, Huggingface, Tensorflow, Pandas, NumPy, NLTK
Languages	📌	English, Bengali, Hindi.

## Miscellaneous Experience

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### RESEARCH EXPERIENCE

- 📌 Senior Research Scientist at IIT Delhi (from August, 2024- May, 2025).
- 📌 Junior Research Fellow (TQIP, a World Bank Project of Govt. Of India), at Department of Computer Science & Engineering, Jadavpur University, Kolkata, India. (November 2015 – June 2016).

### PROFESSIONAL ACTIVITIES

- 📌 Program Chair, JENAI Workshop on Generative AI in Computational Journalism, collocated with PAKDD 2026.
- 📌 Program committee member of Forum for Information Retrieval Evaluation (FIRE), 2023
- 📌 Journal Reviewer: ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), PLOS One journal.
- 📌 Conference Reviewer: ACL Rolling Review, FIRE 2023, ICON 2023.

### TEACHING EXPERIENCE

- 📌 Faculty, Sitare University, Lucknow (July 2025 – December, 2025) Courses: Data Structures and Algorithms, Artificial Intelligence
- 📌 Institute Courses: Teaching Assistant (IIT Kharagpur) for NLP, Deep Learning, Programming and Data Structure Lab; C Programming Lab (Jadavpur University).

## Miscellaneous Experience (continued)

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- 📖 Online Course: Teaching Assistant for Introduction to Machine Learning course at NPTEL.

## Achievements

- 📖 Invited to deliver lecture at the Faculty Development Program on "Exploring IoT & AI Frontier in Teaching and Research" organized by the Department of CSE (IoT), Institute of Engineering & Management, Kolkata.
- 📖 Received a 2900 USD grant from Microsoft Research India to attend the SIGIR 2024 Conference in Washington DC, USA.

## References

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### **Prof Sudeshna Sarkar (PhD supervisor)**

Professor

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IIT Kharagpur, Kharagpur – 721302, India.

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### **Prof Partha P. Chakrabarti**

Professor

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