

# MOHIT SINGH TOMAR

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## EDUCATION

### Indian Institute of Technology Patna

June 2020

*Bachelor of Technology in Electrical Engineering CPI- 7.41*

## EXPERIENCE

### AI-NLP-ML Lab IIT Patna

Sep 2022 – July 2023

*Junior Research Fellow | Advisor: [Prof. Sriparna Saha](#)*

*Patna, India*

- Studied the relation between Sarcasm and Dialogue Acts and the role of modality order fusion in these two classification tasks in a multi-modal dialogue setting.
- Developed Plant Care Conversation dataset. It has conversations between user and agent regarding queries related to plants in multi-modal scenarios and build the multi-modal plant care assisting dialogue generation model.
- Studied the role of knowledge graph and patient self-report for disease diagnosis from the conversation between doctor and patient.

### OYO Rooms

Aug 2020 – Jun 2021

*Software Developer Engineer-1*

*Remote*

- Worked with HMS team, developed and maintained backend services for generating reports in OYO OS.
- Used Java, Spring, Spring boot, Microservice Architecture to develop the backend features of OYO OS.
- Worked with PostgreSQL, MongoDB and Elasticsearch databases.

## ACCEPTED PUBLICATIONS

**Mohit Tomar**, Tulika Saha, Abhisek Tiwari, Sriparna Saha. Action and Reaction go hand in hand! A Multi-modal Dialogue Act Aided Sarcasm Identification (LREC-Coling, Main 2024). [[Paper](#)] [[Code](#)]

Akash Ghosh, **Mohit Singh Tomar**, Abhisek Tiwari, Sriparna Saha, Jatin Avinash Salve, Setu Sinha. From Sights to Insights: Towards Summarization of Multimodal Clinical Queries (ACL, Main 2024).

**Mohit Tomar**, Abhisek Tiwari, Tulika Saha, Prince Jha, Sriparna Saha. An EcoSage Assistant: Towards Building A Multimodal Plant Care Dialogue Assistant (European Conference on Information Retrieval ECIR 2024). [[Paper](#)] [[Arxiv](#)][[Code](#)]

**Mohit Tomar\***, Abhisek Tiwari\*, Sriparna Saha. Towards Knowledge-Infused Automated Disease Diagnosis Assistant (Scientific Reports 2024). [[Paper](#)] [[Code](#)]

**Mohit Tomar\***, Abhisek Tiwari\*, Tulika Saha, Sriparna Saha. Your tone speaks louder than your face! Modality Order Infused Multi-modal Sarcasm Detection. In Proceedings of the 31st ACM International Conference on Multimedia 2023 Oct 26 (pp. 3926-3933). [[Paper](#)] [[Code](#)]

## PROJECTS

### Dialogue Graph Encoding [[Code](#)] | *Pytorch*

July 2022

- Created Dialogue Graph from dialogue between patient and doctor.
- Applied Graph Attention Network to generate dialogue embedding for medication recommendation.

### Graph Attention Network for licit/illicit transaction. [[Code](#)] | *Pytorch*

June 2022

- Bitcoin dataset from Kaggle is used for training graph attention network.
- It is node level classification task to determine licit/illicit transactions.

## ONLINE CERTIFICATIONS

Applied Machine Learning in Python [[Link](#)]

January 2021

Deep Learning [[Link](#)]

August 2021

Natural Language Processing [[Link](#)]

March 2022