





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

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, 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](#)]

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*, 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](#)]

UNDER REVIEW PUBLICATIONS

Mohit Tomar*, Abhisek Tiwari*, Sriparna Saha. Towards Knowledge-Infused Automated Disease Diagnosis Assistant (Scientific Reports).

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