

MOHIT SINGH TOMAR

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EDUCATION

Indian Institute of Technology Patna <i>Bachelor of Technology in Electrical Engineering CPI- 7.41</i>	June 2020
Royal Higher Secondary School <i>MP Board of Secondary Education (10+2) Percentage- 87%</i>	May 2015
St. Aloysius Senior Secondary School <i>CBSE (High School) CGPA- 9.6</i>	May 2013

EXPERIENCE

AI-NLP-ML Lab IIT Patna <i>Junior Research Fellow Advisor: Prof. Sriparna Saha</i>	Sep 2022 – July 2023 <i>Patna, India</i>
<ul style="list-style-type: none">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 <i>Software Developer Engineer-1</i>	Aug 2020 – Jun 2021 <i>Remote</i>
<ul style="list-style-type: none">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**, 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](#)] [[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**, Tulika Saha, Abhisek Tiwari, Sriparna Saha. Action and Reaction go hand in hand! A Multi-modal Dialogue Act Aided Sarcasm Identification (LREC-Coling 2024).
- Mohit Tomar***, Abhisek Tiwari*, Sriparna Saha. Towards Knowledge-Infused Automated Disease Diagnosis Assistant (Scientific Reports).
- Akash Ghosh, **Mohit Singh Tomar**, Abhisek Tiwari, Sriparna Saha, Jatin Avinash Salve, Setu Sinha. From Sights to Insights: Towards Summarization of Multimodal Clinical Queries (ARR).

PROJECTS

Dialogue Graph Encoding [Code] <i>Pytorch</i>	July 2022
<ul style="list-style-type: none">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] <i>Pytorch</i>	June 2022
<ul style="list-style-type: none">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
AI for Medical Diagnosis & AI for Medical Prognosis [Link1] [Link2]	April 2022
Build Basic GANs & Build Better GANs [Link1] [Link2]	May 2022