

# Mohit Singh Tomar

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## EDUCATION

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

## EXPERIENCE

<b>AI-NLP-ML Lab IIT Patna</b> <i>Junior Research Fellow   Advisor: <a href="#">Prof. Sriparna Saha</a></i>	Sep 2022 – July 2023 <i>Patna, India</i>
<ul style="list-style-type: none"><li>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.</li><li>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.</li><li>Studied the role of knowledge graph and patient self-report for disease diagnosis from the conversation between doctor and patient.</li></ul>	
<b>OYO Rooms</b> <i>Software Developer Engineer-1</i>	Aug 2020 – Jun 2021 <i>Remote</i>
<ul style="list-style-type: none"><li>Worked with HMS Team. Developed Backend services for OYO OS.</li><li>Used Java, Spring, Spring boot, Microservice Architecture to develop the backend features of OYO OS.</li><li>Worked with PostgreSQL, MongoDB and Elasticsearch databases.</li></ul>	

## ACCEPTED PUBLICATIONS

**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). [\[Link\]](#)

## 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, Tulika Saha, Sriparna Saha. An EcoSage Assistant: Towards Building A Multimodal Plant Care Dialogue Assistant (ECIR 2024).

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

## PROJECTS

<b>Dialogue Graph Encoding</b> <a href="#">[Link]</a>   <i>Pytorch</i>	July 2022
<ul style="list-style-type: none"><li>Created Dialogue Graph from dialogue between patient and doctor.</li><li>Applied Graph Attention Network to generate dialogue embedding for medication recommendation.</li></ul>	
<b>Graph Attention Network for licit/illicit transaction.</b> <a href="#">[Link]</a>   <i>Pytorch</i>	June 2022
<ul style="list-style-type: none"><li>Bitcoin dataset from Kaggle is used for training graph attention network.</li><li>It is node level classification task to determine licit/illicit transactions.</li></ul>	

## ONLINE CERTIFICATIONS

<b>Applied Machine Learning in Python</b> <a href="#">[Link]</a>	January 2021
<b>Deep Learning</b> <a href="#">[Link]</a>	August 2021
<b>Natural Language Processing</b> <a href="#">[Link]</a>	March 2022
<b>AI for Medical Diagnosis &amp; AI for Medical Prognosis</b> <a href="#">[Link1]</a> <a href="#">[Link2]</a>	April 2022
<b>Build Basic GANs &amp; Build Better GANs</b> <a href="#">[Link1]</a> <a href="#">[Link2]</a>	May 2022