Rocktim Jyoti Das

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EDUCATION

Indian Institute of Technology Delhi   *2018 - 2022*
B.Tech in Electrical Engineering with Minor in Computer Science and Engineering
CGPA: 8.541/10.

PUBLICATIONS

Conference Publications   * - equal contribution

1. **EXAMS-V: A Multi-Discipline Multilingual Multimodal Exam Benchmark for Evaluating Vision Language Models**
   Rocktim Jyoti Das, Simeon Emilov Hristov, Haonan Li, Dimitar Iliyanov Dimitrov, Ivan Koychev, Preslav Nakov.
   Accepted in ACL Main, 2024.

2. **Synergizing In-context Learning with Hints for End-to-end Task-oriented Dialog Systems**
   Vishal Saley, **Rocktim Jyoti Das**, Dinesh Raghu, Mausam.
   Accepted in EMNLP Main, 2024.

3. **DKAF: KB Arbitration for Learning Task-Oriented Dialog Systems with Dialog-KB Inconsistencies**
   Vishal Saley, **Rocktim Jyoti Das**, Dinesh Raghu, Mausam.
   Accepted in ACL Findings, 2023.

4. **Exploring Distributional Shifts in Large Language Models for Code Analysis**
   Shushan Arakelyan, **Rocktim Jyoti Das**, Yi Mao, Xiang Ren.
   Accepted in EMNLP Main, 2023.

5. **MediTOD: An English Dialogue Dataset for Medical History Taking with Comprehensive Annotations**
   Vishal Vivek Saley, Goonjan Saha, **Rocktim Jyoti Das**, Dinesh Raghu, Mausam.
   Accepted in EMNLP Main, 2024.

6. **Factuality of Large Language Models: A Survey**
   Yuxia Wang, Minghan Wang, Muhammad Arslan, Fei Liu, Georgi Georgiev, **Rocktim Jyoti Das**, Preslav Nakov.
   Accepted in EMNLP Main, 2024.

7. **Can a Multichoice Dataset be Repurposed for Extractive Question Answering?**
   Teresa Lynn, Malik H. Altakrori, Samar Mohamed Magdy, **Rocktim Jyoti Das**, Chenyang Lyu, Mohamed Nasr, Younes Samih, Alham Fikri Aji, Preslav Nakov, Shantanu Godbole, Salim Roukos, Radu Florian, Nizar Habash.
   Accepted to COLING 2025.

Preprints

1. **MALMM: Multi-Agent Large Language Models for Zero-Shot Robotics Manipulation**
   Harsh Singh*, **Rocktim Jyoti Das***, Mingfei Han, Preslav Nakov, Ivan Laptev.
   submitted to ICRA 2025.

2. **MALT: Improving Reasoning with Multi-Agent LLM Training**
   Sumeet Ramesh Motwani, Chandler Smith, **Rocktim Jyoti Das**, Markian Rybchuk, Ronald Clark, Philip Torr, Fabio Pizzati, Ivan Laptev, Christian Schroeder de Witt
   submitted to AAMAS 2025.

AWARDS AND HONORS

- Selected for the prestigious **Google Research India Predoctoral Research Program, 2023**   *2023*
- **Rajiv Bambawale Cash Prize Award** for best undergrad thesis project in Electrical Engineering.   *2022*
- **Anundoram Borooah Award**, Government of Assam, India for academic excellence in high school.   *2016*

WORK EXPERIENCE

Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi   *Sept, 2024 - Present*
Research Associate II
Advisors: Prof. Ivan Laptev & Prof. Preslav Nakov
Focusing on leveraging vision and language foundational models to develop embodied systems and agentic frameworks for visual reasoning.

Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi *June, 2023 - Sept 2024*
Research Associate I
Advisor: Prof. Preslav Nakov
Investigated the multimodal reasoning capabilities of state-of-the-art Vision-Language Models (VLMs) with the goal of enhancing their reasoning capabilities.

Data Analytics and Intelligence Research Group, IIT Delhi & IBM Research, India *June, 2022 - June, 2023*
Research Assistant
Advisor: Prof. Mausam
Worked on solving challenges related to task-oriented dialog systems and conversation-based medical diagnosis.

SERVICE

- *Undergraduate Teaching Assistantship:* Electrical Engineering, IIT Delhi
    - Physical Electronics - *Prof. Debanjan Bhowmik* *Fall 2021*
    - Advanced Machine Learning - *Prof. Sandeep Kumar & Prof. Jaydeva* *Spring 2022*
    - Natural Language Processing - *Prof. Mausam* *Fall 2022*
- *Reviewing:* ACL ARR December 2022, ACL ARR February 2024
- *Organizing: Multimodal Reasoning Task* for ImageCLEF 2025 - Multimedia Retrieval Track at CLEF.
- *Outreach:* Mathematics tutor for high-school students at National Association of Blind, RK Puram, New Delhi.

SKILLS

- **Programming:** C++, MATLAB, Python and LaTeX
- **Framework:** PyTorch, PyTorch Geometric
- **Software:** CoppeliaSim, PyRep
- **Robot:** Franka Emika Research 3

OPEN-SOURCE LLM PROJECTS

- **LLaMA-3-Nanda-10b-Chat**: Currently, the leading open-source Hindi-English bilingual model for generation and reasoning, surpassing existing models on safety benchmarks.

REFERENCES

- Dr. Mausam, Professor, Computer Science and Engineering Department, IIT, Delhi, Email: mausam@cse.iitd.ac.in.
- Dr. Preslav Nakov, Professor, NLP Department, MBZUAI, Abu Dhabi, Email: preslav.nakov@mbzuai.ac.ae.
- Dr. Ivan Laptev, Professor, Department of Computer Vision, MBZUAI, Abu Dhabi, Email: ivan.laptev@mbzuai.ac.ae.