

Rishabh Maheshwary

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Summary

My research interests broadly encompass training, alignment, and benchmarking of language models. With the growing integration of AI into our day to day lives, I am passionate about developing AI systems that are not only safe but also robust and reliable.

Work Experience

- **ServiceNow - Applied Scientist** **Hyderabad, India**
My research concentrates on boosting the overall performance of language models after pre-training. This involves enhancing alignment, improving multilingual capabilities, curating datasets, and benchmarking models. Aug 2023 – Present
 - **Facebook AI Research - AI Resident** **California, U.S.**
My research was focused on designing intelligent and reliable systems having joint understanding of vision and language modalities. Nov 2021 – Dec 2022
 - **Verisk AI – Research Intern** **Hyderabad, India**
I worked on joint language and vision understanding of multimodal content and semantic understanding of natural language documents. May 2021 – Oct 2021
 - **Google Summer of Code – Software Developer Intern** **Remote**
I developed an application enabling users to report incidents thus facilitating nearby assistance and communication. Apr 2018 – Sept 2018
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Publications

1. A Comprehensive Multilingual Dataset for Improving Conversational Abilities of LLMs. *Under Submission in NeurIPS 2024* (First author).
2. Pulkit Pattnaik, **Rishabh Maheshwary**, Kelechi Ogueji, Vikas Yadav, Sathwik Tejaswi Madhusudhan. Curry-DPO: Enhancing Alignment using Curriculum Learning & Ranked Preferences. *Under Submission in ACL Rolling Review*.
3. Corentin Dancette, Spencer Whitehead, **Rishabh Maheshwary**, Ramakrishna Vedantam, Stefan Scherer, Xinlei Chen, Matthieu Cord, Marcus Rohrbach. Improving Selective Visual Question Answering by Learning from Your Peers. In the *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR, 2023)* Vancouver, Canada.
4. Vivek Kumar, **Rishabh Maheshwary**, Vikram Pudi. Practice Makes a Solver Perfect: Data Augmentation methods for Math Word Problem Solvers. In the *Proceedings of North American Chapter of the Association for Computational Linguistics (NAACL 2022)*, Seattle, Washington.
5. **Rishabh Maheshwary***, Saket Maheshwary*, Vikram Pudi. A Strong Baseline for Query Efficient Attacks in a Black Box Setting. In the *Proceedings of Empirical Methods in Natural Language Processing (EMNLP) 2021*, Punta Cana, Dominican Republic.

6. **Rishabh Maheshwary***, Vivek Kumar*, Vikram Pudi. Adversarial Examples for Evaluating Math Word Problem Solvers. In the *Findings of ACL: Empirical Methods in Natural Language Processing (EMNLP) 2021*, Punta Cana, Dominican Republic.
7. **Rishabh Maheshwary**, Saket Maheshwary, Vikram Pudi. Generating Natural Language Attacks in a Hard Label Black Box Setting. In the *Proceedings of Association for the Advancement of Artificial Intelligence (AAAI) 2021*, Vancouver, Canada.
8. **Rishabh Maheshwary**, Saket Maheshwary, Vikram Pudi. A Context Aware Approach for Generating Natural Language Attacks. In the *Proceedings of Association for the Advancement of Artificial Intelligence (AAAI) 2021*, Vancouver, Canada.

* Equal Contribution

Education

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| <ul style="list-style-type: none"> • International Institute of Information Technology, Hyderabad
MS by Research in Computer Science and Engineering CGPA: 8.7/10 | Hyderabad, India
2019 – 2021 |
| <ul style="list-style-type: none"> • University Institute of Engineering and Technology, Panjab University
BTech in Computer Science and Engineering CGPA: 8.4/10 | Chandigarh, India
2015 – 2019 |
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Major Projects

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| <ul style="list-style-type: none"> • Information Extraction from Form like Documents
The aim is to design an intelligent reading system that is expected to respond to ad-hoc requests for information, expressed in natural language questions by human users. | 2021 |
| <ul style="list-style-type: none"> • Generating Adversarial Attacks on Natural Language Processing Models
The aim is to evaluate the robustness and generalization of text classification, entailment, question answering and language modelling systems. | 2019 |
| <ul style="list-style-type: none"> • MultiHop Question Answering
The aim is to answer questions which require reasoning over multiple supporting documents. | 2019 |
| <ul style="list-style-type: none"> • Deep Learning for detecting Hate Speech Tweets
The aim is to identify abusive language, flag offensive content using natural language processing. | 2018 |
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Miscellaneous

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| <ul style="list-style-type: none"> • Actively reviewing for ECCV, TMLR, CoNLL and NeurIPS. | 2021 - Present |
| <ul style="list-style-type: none"> • Google Summer of Code and Google CodeIn mentor. | 2018 |
| <ul style="list-style-type: none"> • Ranked 1st out of 100+ teams in CODETRIX (National level coding contest). | 2017 |
| <ul style="list-style-type: none"> • Ranked 3rd out of 100+ teams in CODE-IT (National level coding contest). | 2016 |
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Programming Languages and Technologies

- Python, PyTorch, C++, C, Shell, Git
- Machine Learning, Deep learning, Reinforcement learning
- NLP, Multimodal vision & language