

# Rishabh Maheshwary

rf.rishabh@gmail.com | +91 – 8427119320 | [GitHub](#) | [LinkedIn](#) | [Scholar](#) | [Website](#)

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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.

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## Work Experience

- **ServiceNow - Applied Scientist** **Hyderabad, India**  
My research is focused on improving the overall performance of language models post pre-training. This involves fine-tuning, alignment, 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. **Rishabh Maheshwary**, Vikas Yadav, Hoang Nguyen, Khyati Mahajan, Sathwik Tejaswi Madhusudhan. M2Lingual: Enhancing Multilingual, Multi-Turn Instruction Alignment in Large Language Models. *Under Submission in NeurIPS 2024*.
2. Pulkit Pattnaik, **Rishabh Maheshwary**, Kelechi Ogueji, Vikas Yadav, Sathwik Tejaswi Madhusudhan. Curry-DPO: Enhancing Alignment using Curriculum Learning & Ranked Preferences. *Under Submission in EMNLP 2024*.
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.

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\* Equal Contribution

## Education

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

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| <ul style="list-style-type: none"> <li>• <b>Information Extraction from Form like Documents</b><br/>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.</li> </ul> | 2021 |
| <ul style="list-style-type: none"> <li>• <b>Generating Adversarial Attacks on Natural Language Processing Models</b><br/>The aim is to evaluate the robustness and generalization of text classification, entailment, question answering and language modelling systems.</li> </ul>       | 2019 |
| <ul style="list-style-type: none"> <li>• <b>MultiHop Question Answering</b><br/>The aim is to answer questions which require reasoning over multiple supporting documents.</li> </ul>   | 2019 |
| <ul style="list-style-type: none"> <li>• <b>Deep Learning for detecting Hate Speech Tweets</b><br/>The aim is to identify abusive language, flag offensive content using natural language processing.</li> </ul>  | 2018 |
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## Miscellaneous

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