

# Rishabh Maheshwary

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

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## Work Experience

- **Facebook AI Research - AI Resident** **California, U.S.**  
My research is currently focused on designing intelligent 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*
  - **MSB Docs – Software Developer Intern** **Chandigarh, India**  
I improved the existing e-signing application by adding new features that track changes made to the document and allows bulk signing of multiple documents. *Jan 2019 – June 2019*
  - **Google Summer of Code – Software Developer Intern** **Remote**  
I developed an application that allows users to report calamities on google maps so that nearby users can view, share, and communicate with the people involved in the crisis. *Apr 2018 – Sept 2018*
  - **Design Innovation Center, UIET – Research Intern** **Chandigarh, India**  
I worked on detecting hate speech using natural language processing. *Jul 2017 – Dec 2017*
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## Publications

1. Improving Selective Visual Question Answering. Under submission In the *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR, 2023)* Vancouver, Canada
  2. 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.
  3. **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.
  4. **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.
  5. **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.
  6. **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

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## Education

- **International Institute of Information Technology, Hyderabad** **Hyderabad, India**  
*MS by Research in Computer Science and Engineering | CGPA: 8.7/10* 2019 – 2021
  - **University Institute of Engineering and Technology, Panjab University** **Chandigarh, India**  
*BTech in Computer Science and Engineering | CGPA: 8.4/10* 2015 – 2019
  - **Spring Dale Senior School** **Amritsar, India**  
*Senior Secondary Education* 2015
  - **Saint Francis School** **Amritsar, India**  
*Secondary Education* 2013
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## Major Projects

- **Information Extraction from Form like Documents** 2021  
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.
  - **Generating Adversarial Attacks on Natural Language Processing Models** 2019  
The aim is to evaluate the robustness and generalization of text classification, entailment, question answering and language modelling systems.
  - **MultiHop Question Answering** 2019  
The aim is to answer questions which require reasoning over multiple supporting documents.
  - **Deep Learning for detecting Hate Speech Tweets** 2018  
The aim is to identify abusive language, flag offensive content using natural language processing.
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## Awards and Achievements

- **Google Summer of Code** and **Google CodeIn** mentor. 2018
  - Ranked 1<sup>st</sup> out of 100+ teams in **CODETRIX** (National level coding contest). 2017
  - Ranked 3<sup>rd</sup> 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, NLP, Multimodal vision & language