

# KRITHIKA RAMESH

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 Semantic Scholar  GitHub  LinkedIn  Website

## EDUCATION

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### Johns Hopkins University

Ph.D., Computer Science

2023 – Present

*Advisors: Dr. Anjalie Field, Dr. Mark Dredze*

### Manipal Institute of Technology, Manipal

B.Tech, Information Technology (Minor in Computational Intelligence)

2018 – 2022

CGPA: 8.12/10

## EXPERIENCE

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### Research Intern

Microsoft Research India

August 2022 – June 2023

*Supervisor: Dr. Sunayana Sitaram*

- Domain: Fairness in Language Models

### Research Intern

Microsoft Research India

January 2022 – July 2022

*Supervisor: Dr. Rahul Sharma*

- Domain: Privacy-Preserving Machine Learning

### Research Intern

Indian School of Business, Hyderabad

May 2021 – Present

*Supervisors: Dr. Sumeet Kumar, Dr. Ashiqur KhudaBukhsh*

- Domain: NLP for social good

## RESEARCH EXPERIENCE AND PUBLICATIONS

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### MEGA: Multilingual Evaluation of Generative AI [Paper](#)

K. Ahuja, H. Diddee, R. Hada, M. Ochieng, K. Ramesh, P. Jain, A. Nambi, T. Ganu, S. Segal, M. Axmed, K. Bali, S. Sitaram, EMNLP 2023

### A Comparative Study of Model Compression Techniques on Fairness in Language Models [Paper](#)

K. Ramesh, A. Chavan\*, S. Pandit\*, S. Sitaram, ACL 2023

### End-to-end Privacy Preserving Training and Inference for Air Pollution Forecasting with Data from Rival Fleets [Paper](#)

G. Gupta, K. Ramesh, A. Bhattacharya, D. Gupta, R. Sharma, N. Chandran, R. Sen, PETS 2023

### Fairness in Language Models Beyond English: Gaps and Challenges [Paper](#)

K. Ramesh, S. Sitaram, M. Choudhury, EACL Findings 2023

### ‘Beach’ to ‘Bitch’: Inadvertent Unsafe Transcription of Kids’ Content on YouTube [Paper](#)

K. Ramesh, AR KhudaBukhsh, S. Kumar, AAAI 2022, AI for Social Impact Track

### Revisiting Queer Minorities in Lexicons [Paper](#)

K. Ramesh, S. Kumar, AR KhudaBukhsh, Proceedings of the 6th Workshop on Online Abuse and Harms, NAACL, 2022

### Towards Quantifying the Carbon Emissions of Differentially Private Machine Learning [Paper](#)

R. Naidu\*, H. Diddee\*, A. Mulay\*, A. Vardhan\*, K. Ramesh\*, A. Zamzam, Socially Responsible Machine Learning Workshop, ICML, 2021

## Evaluation of Gender Bias in Hindi-English Machine Translation [Paper](#)

G.Gupta\*, K.Ramesh\*, S.Singh, Proceedings of the Third Workshop on Gender Bias in Natural Language Processing, ACL-IJCNLP, 2021

### TECHNICAL STRENGTHS

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<b>Programming Languages</b>	Python, C++, C, Java
<b>AI Libraries/Frameworks</b>	PyTorch, Tensorflow, keras, sk-learn, OpenCV, nltk, spaCy, etc
<b>Other Software</b>	NetLogo, GAMA

### EXTRACURRICULARS

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- **Queer in AI** talk at **ACL '21** on **Queer Representation in Indian Academia**
- **Volunteer** at **ICML '21**, **NAACL '22**
- **ACM and ACM-W, Manipal**: Core committee member.
- **Volunteer** at **Teach Code for Good**: An NGO in Manipal that aims to educate underprivileged children between the ages of 11-15 about the basics of coding in Python and HTML/CSS.
- **The Research Society-MIT**  
*Co-President and Co-Founder*
  - Founded the Research Society in 2020, a student organization in the Manipal Institute of Technology, with the core aim of providing a platform for undergraduate research. With over a **100 members**, it spans **10 domains** some of which include biotechnology, robotics, and artificial intelligence.
  - **25+ papers accepted** to journal and conference proceedings around the world, with 40+ ongoing projects. Organized over 20 webinars where we invited proficient researchers in a variety of fields to discuss their work.
  - Assisted in mentoring and conducting the training phase for over 20 students in the **Artificial Intelligence and Cybersecurity** domains.