


KRITHIKA RAMESH

(+1) 667-354-7768 ✧ kramesh.tlw@gmail.com

▴ Semantic Scholar  GitHub ✧ **in** LinkedIn  Website

EDUCATION

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

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

A Comparative Study of Model Compression Techniques on Fairness in Language Models

K. Ramesh, A. Chavan*, S. Pandit*, S. Sitaram (Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics: ACL 2023)

End-to-end Privacy Preserving Training and Inference for Air Pollution Forecasting with Data from Rival Fleets

G. Gupta, K. Ramesh, A. Bhattacharya, D. Gupta, R. Sharma, N. Chandran, R. Sen (Privacy Enhancing Technologies Symposium: PETS 2023)

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

K. Ramesh, S. Sitaram, M. Choudhury (Findings of the European Chapter of the Association for Computational Linguistics: EACL 2023)

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

K. Ramesh, AR KhudaBukhsh, S. Kumar, Proceedings of the Thirty-Sixth AAAI Conference on Artificial Intelligence, 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

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

EXTRACURRICULARS

- **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.