

# KRITHIKA RAMESH

kramesh3@jh.edu

 Google Scholar  Semantic Scholar  GitHub  Linkedin  Website

## EDUCATION

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### Johns Hopkins University

Ph.D., Computer Science

2023 – Present

Advisor(s): Dr. Anjalie Field

### Manipal Institute of Technology, Manipal

B.Tech, Information Technology

2018 – 2022

CGPA: 8.12/10

## EXPERIENCE

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### Visiting Student

IISC Bangalore

May 2024 – July 2024

Supervisor: Dr. Danish Pruthi

### Research Intern

Microsoft Research India

August 2022 – June 2023

Supervisor: Dr. Sunayana Sitaram

### Research Intern

Microsoft Research India

January 2022 – July 2022

Supervisor: Dr. Rahul Sharma

### Research Intern

Indian School of Business, Hyderabad

Supervisors: Dr. Sumeet Kumar, Dr. Ashiqur KhudaBukhsh

## RESEARCH EXPERIENCE AND PUBLICATIONS

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### SynthTextEval: A Toolkit for Generating and Evaluating Synthetic Data Across Domains [Paper](#)

K. Ramesh, D. Smolyak, Z. Zhao, N. Gandhi, R. Agarwal, M. Bjarnadóttir, A. Field

### Evaluating Differentially Private Synthetic Data Generation in High-Stakes Domains [Paper](#)

K. Ramesh, N. Gandhi, P. Madaan, L. Bauer, C. Peris, A. Field, EMNLP Findings 2024

### 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

## INVITED TALKS

### Differentially Private Synthetic Data Generation

February 2025

*Meta, Privacy-Preserving Machine Learning Group*

### Navigating Privacy in Language Models: Challenges and Solutions

March 2025

*Johns Hopkins Center for Language and Speech Processing, NLP Seminar*

### Privacy-Preservation in Synthetic Text for High-Stakes Domains

April 2025

*Center for Digital Health and Artificial Intelligence, Johns Hopkins Carey Business School*

## TECHNICAL STRENGTHS

### Programming Languages

Python, C++, C, Java

### AI Libraries/Frameworks

PyTorch, Tensorflow, keras, sk-learn, OpenCV, nltk, spaCy, etc

### Other Software

NetLogo, GAMA

## OUTREACH & SERVICE

- 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, Manipal**  
*Co-President and Co-Founder*
  - Co-founded the Research Society, a student organization with the core aim of providing a platform for undergraduate research.
  - Assisted in mentoring and conducting the training phase for over 20 students in the AI and Cybersecurity domains.