

# KRITHIKA RAMESH

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🔗 Google Scholar 🔗 Semantic Scholar 🐙 GitHub ✦ in 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*

*May 2021 – Jan 2023*

*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**

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#### **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**

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#### **Programming Languages**

Python, C++, C, Java

#### **AI Libraries/Frameworks**

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

#### **Other Software**

NetLogo, GAMA

### **OUTREACH & SERVICE**

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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, 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.