

KRITHIKA RAMESH

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⤴ Semantic Scholar ✎ GitHub ✧ in LinkedIn 🌐 Website

EDUCATION

Manipal Institute of Technology, Manipal

2018 – 2022

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

CGPA: 8.12/10

EXPERIENCE

Research Intern

August 2022 – June 2023

Microsoft Research India

Supervisor: Dr. Sunayana Sitaram

- Domain: Fairness in Language Models

Research Intern

January 2022 – July 2022

Microsoft Research India

Supervisor: Dr. Rahul Sharma

- Domain: Privacy-Preserving Machine Learning

Research Intern

May 2021 – Present

Indian School of Business, Hyderabad Supervisors: Dr. Sumeet Kumar, Dr. Ashiqur KhudaBukhsh

- Domain: Applications of 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, R. Sharma, D. Gupta, 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.