Ramaravind Kommiya Mothilal

PhD Candidate, University of Toronto

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Education

Present Sep 2022	University of Toronto PhD in Information	Toronto, Canada
Feb 2018 Sep 2016	Katholieke Universiteit Leuven (KU Leuven) MSc in Artificial Intelligence (Engineering and Computer Science Specialization) > Percentage: 76.81% (Magna Cum Laude)	Leuven, Belgium
May 2015 July 2011	National Institute of Technology (NIT) Trichy Bachelor in Instrumentation and Control Engineering > CGPA: 8.1/10 (First Class)	Tiruchirappalli, India

Experience

perience	perience				
Jun 2022	Everwell Health Solutions	Bangalore, India			
Mar 2021					
	 Data Scientist Mentor: Dr. Bill Thies Designed a systematic data hygiene framework to anticipate and remove sourc stream ML tasks. 	es of data bias in down-			
	> Developed indicators to evaluate and improve engagement of health providers herence to medications.	to facilitate patient ad-			
	> Built various dashboards with Power BI and Apache Superset for different stakeh and Central TB Division—Government of India.	olders, including USAID			
Feb 2021	Microsoft Research Center for Societal Impact through Cloud & AI [♀]	Bangalore, India			
Jan 2019					
	planations)—to generate otain a different predic-				
	> Studied the complementarities of Feature Attribution and Counterfactual explanation methods to				
	 demonstrate the value of considering multiple kinds of model explanations. [AIES'21] Studied how occupying (un)favourable positions in the politicians' social networks lead to discrimination and inequality in terms of both information received and propagation of new information, and showed how caste and celebrity capital manifest in social media activities of Indian politicians. [CSCW'21] 				
Dec 2020	Microsoft Research Technology for Emerging Markets [❷]	Bangalore, India			
July 2018	Research Intern Advisors: Dr. Amit Sharma	ζ ,			
Jul 2016 Jul 2015	Royal Bank of Scotland (RBS) Data Archival Team Analyst	Chennai, India			

Publications

May 2014

P=Preprint, I=In Press, C=Conference, W=Workshop, D=Demo/Poster, J=Journal

- [P.2] Reasoning About Reasoning: Towards Informed and Reflective Use of LLM Reasoning in HCI [%]

 Ramaravind Kommiya Mothilal, Sally Zhang, Syed Ishtiaque Ahmed, and Shion Guha

 [Preprint]
- [P.1] Human-Aligned Faithfulness in Toxicity Explanations of LLMs [%]

 Ramaravind Kommiya Mothilal, Joanna Roy, Syed Ishtiaque Ahmed, and Shion Guha
 [Preprint]

Jul 2014 | Indian Institute of Science | Computational Intelligence Lab [♥]

Research Intern | Advisors: Dr. S N Omkar

[C.13] Talking About the Assumption in the Room [%]

Ramaravind Kommiya Mothilal, Faisal M Lalani, Syed Ishtiaque Ahmed, Shion Guha, and Sharifa Sultana

2025 CHI Conference on Human Factors in Computing Systems [CHI'25]

Bangalore, India

	Ramaravind Kommiya Mothilal, Shion Guha, Syed Ishtiaque Ahmed	
	2024 CHI Conference on Human Factors in Computing Systems	[CHI'24]
[C.10]	Caste Capital on Twitter: A Formal Network Analysis of Caste Relations among Indian Politicians Ramaravind Kommiya Mothilal*, Palashi Vaghela*, Joyojeet Pal (* = Equal Contribution) Proceedings of the ACM on Human-Computer Interaction (CSCW)	[%] [CSCW'22]
[C.9]	Voting with the stars: Analyzing Partisan Engagement between Celebrities and Politicians in Indi Ramaravind Kommiya Mothilal, Dibyendu Mishra, Sachita Nishal, Faisal M. Lalani, Joyojeet Pal Proceedings of the ACM on Human-Computer Interaction (CSCW)	ia [%] [CSCW'22]
[C.8]	Towards unifying feature attribution and counterfactual explanations: Different means to the san Ramaravind Kommiya Mothilal, Divyat Mahajan, Chenhao Tan, Amit Sharma Proceedings of the 2021 AAAI/ACM Conference on AI, Ethics, and Society, 652-663	ne end [%]
[C.7]	Birds of a Caste-How Caste Hierarchies Manifest in Retweet Behavior of Indian Politicians [%] Palashi Vaghela*, Ramaravind Kommiya Mothilal*, Joyojeet Pal (* = Equal Contribution) Proceedings of the ACM on Human-Computer Interaction	[CSCW'21]
[C.6]	Using Mobile Airtime Credits to Incentivize Learning, Sharing and Survey Response: Experience Field [%] Devansh Mehta, Ramaravind Kommiya Mothilal, Alok Sharma, William Thies, Amit Sharma Proceedings of the 3rd ACM SIGCAS Conference on Computing and Sustainable Societies [Conference]	es from the OMPASS'20]
[C.5]	Topical Focus of Political Campaigns and its Impact: Findings from Politicians' Hashtag Use during Indian Elections [%] Anmol Panda, Ramaravind Kommiya Mothilal, Monojit Choudhury, Kalika Bali, Joyojeet Pal	_
[C.4]	Learnings from Technological Interventions in a Low Resource Language: A Case-Study on Gondi Sebastin Santy, Devansh Mehta, <u>Ramaravind Kommiya Mothilal</u> , Brij Mohan Lal Srivastava, Alok Shar Shukla, Vishnu Prasad, Venkanna U, Amit Sharma and Kalika Bali International Conference on Language Resources and Evaluation [Invited Submission @ LRE Journal]	
[C.3]	Explaining machine learning classifiers through diverse counterfactual explanations [%] Ramaravind Kommiya Mothilal, Amit Sharma, Chenhao Tan Proceedings of the 2020 Conference on Fairness, Accountability, and Transparency	[FAccT'20]
[C.2]	Optimizing peer referrals for public awareness using contextual bandits [%] Ramaravind Kommiya Mothilal, Amulya Yadav, Amit Sharman Proceedings of the 2nd ACM SIGCAS Conference on Computing and Sustainable Societies [Co	OMPASS'19]
[C.1]	Predicting first-year engineering student success: from traditional statistics to machine learning Ramaravind Kommiya Mothilal, Tom Broos, Maarten Pinxten, Tinne De Laet Proceedings of the 46th SEFI Annual Conference 2018	[SEFI'18]
[W.2]	Community-Driven Data Practices for Advancing Ethical and Equitable AI for Low-Resource Lange Charles Nimo, Shuheng Liu, Amy Z Chen, Ramaravind Kommiya Mothilal, Michael Best Proceedings of the ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies [Conference on Computing Conference On Conference	uage [%]
[W.1]	Towards Unifying Feature Attribution and Counterfactual Explanations Ramaravind Kommiya Mothilal, Divyat Mahajan, Chenhao Tan, Amit Sharma Workshop on Responsible AI, ICLR-21 [Spotlight Contributed Talk] [RA	Ai@iclr'21]
[D.3]	Facilitating Media Distribution with Monetary Incentives [%] Devansh Mehta, Alok Sharma, <u>Ramaravind Kommiya Mothilal</u> , Anurag Shukla, Vishnu Prasad, Wil Venkanna U, Colin Scott, Amit Sharma	lliam Thies,
[D.2]	Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems Learnings from an Ongoing Deployment of an IVR-based Platform for Voter Awarenesss [%] Ramaravind Kommiya Mothilal, Devansh Mehta, Alok Sharma, William Thies, Amit Sharma Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing [a version won Outstanding Poster Award at COMPASS 2019]	[CHI'20] non-archival [CSCW'19]
[D.1]	The Appeal of Influencers to the Social Media Outreach of Indian Politicians [%] Faisal M Lalani, Ramaravind Kommiya Mothilal, Joyojeet Pal Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing [Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing [Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing [Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing [Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing [Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing [Conference Companion Publication Conference Companion Conference Companion Conference Companion Conference Companion Conference Companion Conference	OMPASS'19]
[J.1]	Scale adaptive object tracker with occlusion handling [%]	

[C.12] Towards a Non-Ideal Methodological Framework for Responsible ML [%]

Ramaravind Kommiya Mothilal, TR Shravan, SN Omkar

 $International\ Journal\ of\ Image,\ Graphics\ and\ Signal\ Processinge$

[IJIGSP'16]

Computing Skills

- > Operating System: Windows, Linux
- > Database/Server: MySQL, PostgreSQL, SQL Server
- > Language: Python, R, C/C++, Java, HTML, CSS, JavaScript, PHP, SQL, Hadoop, Spark
- > Visualization Software/Tools: Power BI, Apache Superset, Tableau

Software and Open-Source Contribution

- > HAF: Human-Aligned Faithfulness in Toxicity Explanations of LLMs: University of Toronto commits, repository
- > DiCE: Diverse Counterfactual Explanations for Machine Learning : Microsoft Research India commits, repository

Awards

- > Data Sciences Institute (DSI) Graduate Fellowship C\$75,000 2024-26
- > Schwartz Reisman Institute for Technology and Society (SRI) Graduate Fellowship C\$7,500 2023-24

Mentions and Coverages

> "Dalit MPs less likely to be heard on Twitter than upper castes" The Times of India				
> "Birds of Brahmanical Feather Flock Together" The Wire Aug 2020				
> "DiCE: Diverse Counterfactual Explanations for Hotel Cancellations" Towards Data ScienceJul 2020				
> "DiCE -ML models with counterfactual explanations for the sunk Titanic-" Analytics Vidhya Mar 2020				
> "Open-source library provides explanation for machine learning through diverse counterfactuals"				
Microsoft Research Blog				
> "Elections 2019: What tweet for tat tells you about Rahul Gandhi" LiveMint				

Talks

"Caste Capital on Twi	tter: A Formal Netwo	rk Analysis of Cas	ste Relations among Ind	ian Politicians"

> Department of Management Studies, Indian Institute of Technology DelhiJun 2022

"When Machine Learning meets Educational Science"

Academic Service and Volunteering

Mentor 2024 Responsible Tech Mentorship Program by All Tech Is Human

Reviewer CHI'25, FAccT'25, CHI'24, DIS'24, SatML'24 ICLR-RAI'21 (Demo), TOCHI'22, GHTC'22

Reviewer & AC CHI'24 Late Breaking Works

Reviewer & PC COMPASS'25, COMPASS'22, COMPASS'21, XKDD'21

Section Leader *Code in Place* by Stanford University

Teaching

Teaching Assistant, UofT Speculative Design (INF 2260), Experimental Design for Data Science (INF 2178), Computa-

tional Thinking (INF 1339), Programming for Data Science (INF 1340), Data Analytics (INF 2190), Data Modeling and Database Design (INF 1343), Human Values in Data Science (INF

2210), Computers and Society (CSC 300), Statistics for Data Science (INF 1344)

Workshop Presenter Data Analysis with SQL and MySQL, iSkills Workshop at Faculty of Information, UofT (Fall

2022, Winter 2023, Fall 2023, Winter 2024)