

SWATI RAJWAL



EDUCATION

Emory University, USA CS PhD, swati.rajwal@emory.edu	2023 - 2028 CGPA: 3.978/4
Netaji Subhas University of Technology Master of Technology (M.Tech.) Computer Science	2020 - 2022 Dept. Rank 1, Gold Medalist
Indira Gandhi Delhi Technical University for Women Bachelor of Technology (B.Tech.) Computer Science & Engineering	2014-2018 First Class with Distinction

ACADEMIC POSITIONS

Boston Children's Hospital aff. Harvard Med. School <i>Comp. Health Informatics Program w/ Dr. Majumder</i>	June - Aug 2025 Boston, USA
<ul style="list-style-type: none">* NLP for social isolation & loneliness in youth using telemental platform data from Talkspace* Explore patterns in polysubstance use and broader substance use trends among young population	
Emory University Center for AI Learning <i>Research Fellow & Lead for AI.Data Lab</i>	Jan - May 2025 Georgia, USA
<ul style="list-style-type: none">* Collaborated with project sponsors to establish foundational goals & evaluated team deliverables* Helped students on technical and project management skills via mini-lectures and in-person Q&A	
University of Cambridge <i>Engineering Dept., Research Assistant w/ Dr. Mancini</i>	Jan - Aug 2023 Cambridge, UK
<ul style="list-style-type: none">* Computationally (Python & RSTAN) processed data recorded from a 3-armed bandit algo-based task* Facilitated EPSRC grant application that awarded our team 1,216,800 CPU & 1,000 GPU hours	
University of Oxford <i>Saïd Business School, Research Assistant</i>	Aug - Dec 2022 Remote, UK
<ul style="list-style-type: none">* Research on the applications of Generative adversarial networks (GANs) in marketing & ads.* Implemented technical architecture for automating image processing using the StyleGAN3 model in Python.	

PUBLICATIONS

- * **Rajwal S** et al. Understanding LLMs' Rating Behaviors on Novel Psychoactive Substances. [[AMIA '25 Poster](#)]
- * **Rajwal S**, Pandey A, et al. 2024. Unveiling Voices: Identification of Concerns in a Social Media Breast Cancer Cohort via NLP. In CL4Health Workshop at **LREC-COLING** 2024. [[Paper](#)], [[Code](#)], [[NeurIPS](#)]
- * **Rajwal S**, Agichtein E, Sarker A. 2024. Knowledge-Enhanced Few-Shot In-Context Learning for Medical Error Detection & Correction. In Clinical NLP workshop at **NAACL'24**. [[Paper](#)], [[Code](#)]
- * Romanou A,...**Rajwal S**. et al. Evaluating Multilingual Language Understanding w/ Knowledge [[ICLR 2025](#)]
- * Das S, Ge Y, Guo Y, **Rajwal S**, et al. 2024. Two-Layer Retrieval-Augmented Generation Framework for Low-Resource Medical Question Answering Using Reddit Data: Proof-of-Concept Study. JMIR. [[Paper](#)]
- * **Rajwal S**, et al. 2024. NLP & LLMs for SDOH: Protocol for Systematic Review. [[Paper](#)], [[Protocol](#)]
- * Guo Y, **Rajwal S**, et al. 2023. Generalizable NLP for Migraine Reporting from Social Media. [[AMIA](#)], [[Code](#)]

- * Das S, Walker D, **Rajwal S**, et al. 2024. Emerging Trends of Self-Harm Using Sodium Nitrite in an Online Suicide Community: Observational Study Using NLP Analysis. JMIR Mental Health. [[Paper](#)], [[Code](#)]
- * **Rajwal S**. 2023. LiHiSTO: A Comprehensive List of Hindi Stopwords. Springer. [[Paper](#)], [[Code](#)]
- * **Rajwal S**. 2023. Design of a Chatbot for Children Based on Emotional Intelligence. [[Paper](#)]
- * **Rajwal S** & Aggarwal S. 2023. CNN-Based EEG Signal Analysis: A Systematic Review. [[Paper](#)]

WORKING PAPERS

- * **Rajwal S**, Garg S, et al. 2025. *Do Biased Models Have Biased Thoughts?* [under review at [COLM](#)]
- * Zheng X, **Rajwal S** et al. 2024. *Short-term variability of chronic musculoskeletal pain.* [[medRxiv](#)], [[Pyschopy](#)]
- * **Rajwal S**. 2024. *Decade of NLP in Chronic Pain: A Systematic Review.* [[arXiv](#)]
- * Byun G, **Rajwal S**, Choi J.D. 2025. *LLM-as-a-TA: Open-Source Grading Toolkit* [under review at [ACL SRW](#)]
- * Ge, Y.,...,**Rajwal S**., et al. 2025. *Hierarchically-Informed Data Generation for Biomedical NER.* [[arXiv](#)]
- * C4AI. 2025. *Kaleidoscope: In-language Exams for Massively Multilingual Vision Evaluation.* [[arXiv](#)]
- * Walker D, **Rajwal S**, et al. 2025. *Identifying Social Isolation in NVDRS Narratives.* [[arXiv](#)]
- * Peddireddy S, **Rajwal S**, et al. 2025. *Substance Use Among Homicide Suspects: Analysis of NVDRS Narratives*
- * Walker D., Leung J., Alagappan A., **Rajwal S**. et al. *Centering Patient Voices in Lupus Pain.* [under review]

SCHOLARSHIPS

- * Emory LGS professional development funds awardee 2025 (Boston, 2025)
- * WiML NeurIPS Travel Fund by NSF (Canada, 2024)
- * Family Process Institute New Writers Fellowship (Denver, 2025)
- * Scholarship approved to participate in 4th Annual Stanford [AI+HEALTH](#) conference (Virtual, 2024)
- * Emory Women in Natural Sciences Fellowship for PhD (Georgia, 2023)
- * AI Education Foundation travel grant to [present](#) at Mediterranean ML Summer School (Italy, 2022)
- * Govt. of India AICTE Post Graduate scholarship (India, 2020-22)

MAGAZINE ARTICLES

- * The Art of Understanding and Connecting with Your Future Professor (2025). [ACM XRDS](#)
- * A computer scientist's role in Neuroscience (2024). [Women in Neuroscience UK](#)
- * The truth about multitasking in humans (2022). [IEEE Magazine](#)
- * The do's & don'ts of writing a research request email (2022). [ACM XRDS](#)

INDUSTRY EXPERIENCE

Eaton Corporation

Associate Software Engineer, Full Time

Pune, India

2018 - 2020

Accenture Research Lab

Innovations for Sustainability, R&D Senior Analyst Intern

Bangalore, India

Feb - Aug 2022

REVIEWING ACTIVITIES

- * IEEE EMBS Int'l Conf. on Biomedical and Health Informatics (BHI) 2025
- * 13th International Conference on Learning Representations (ICLR) 2025
- * WiML workshop co-located with NeurIPS in 2024 ([Canada](#)) and 2021 (Virtually)
- * Journal of the American Medical Informatics Association (JAMIA) 2024
- * AMIA 2025 Informatics Summit and Clinical Informatics Conference
- * Co-organizer at the 9th SMM4H ([ACL 2024](#)) and 10th SMM4H ([ICWSM 2025](#))
- * MEDIQA-CORR@ ClinicalNLP (NAACL) 2024
- * Co-reviewer: CL4Health@NAACL'25, AIME'25, IEEE BIBM'24

EXTRA-CURRICULAR

- * Jones Program in Ethics 600 - Emory's Laney Graduate School Ambassador 2025
- * NSF AI Institute for Societal Decision Making [Student Leadership Council \(SLC\)](#)
- * Emory CSI PhD [Ambassador](#) 2024-25
- * [Project](#) lead at Cohere labs, open source community
- * Mentor at Emory University Association of Women in Science 2023-2024 Mentorship Program
- * Accepted to the 2025 Summer School in Responsible AI and Human Rights, [Mila](#)
- * Member and Mentor at [Rewriting the Code](#) since 2019
- * Published an [Amazon Alexa Skill](#) for Alexa enabled devices
- * Selected as [Google's Women Techmakers Ambassador](#) in the Cohort of 2022
- * Authored technical articles for [Towards Data Science](#), [Geek Culture](#), & AV Data Science Blogathon [10](#), [13](#), [15](#)

RELEVANT COURSEWORK

- * BMI-500: Intro. to Ethical Data Science & Informatics (Profs. Gari Clifford, Matthew Reyna)
- * BMI-510: Biostatistics for ML (Prof. McKay); BMI-550: Applied Biomedical NLP (Prof. Sarker)
- * CS-557: AI; CS-572: Information Retrieval (Prof. Eugene Agichtein)
- * CS-571: NLP (Prof. Fei Liu); CS-534: ML (Prof. Joyce Ho)

TEACHING EXPERIENCES

- * CS-329: Computational Linguistics w/ Prof. Jinho Choi (Emory, Spring 2025)
- * CS-534: Machine Learning w/ Prof. Agichtein (Emory, Fall 2024)
- * CS-325: Artificial Intelligence w/ Prof. Agichtein (Emory, Spring 2024)

SESSIONS CONDUCTED

- * Hosted a [session](#) with Dr. Alpana Dubey (Sr. Tech. Researcher) to discuss R&D career
- * [Text Classification](#): Predicting 'Good' or 'Bad' Statements using NLP at DeepLearning.ai platform
- * [Demonstrated a chatbot](#) application using Dialogflow, flask, and Python at DeepLearning.ai session
- * [Customer churn prediction model](#) in Python using Azure ML as Microsoft Learn Student Ambassador
- * [Application of Reinforcement Learning in Financial Markets](#): build a Self-Learning Trading Agent w/ Azure
- * [Getting Started with MS Azure](#): Hands-on for various AI APIs using Microsoft's Intelligent Kiosk platform.