SWATI RAJWAL

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EDUCATION

Emory University, USA   *2023 - 2028*
CS PhD, swati.rajwal@emory.edu   CGPA: 3.978/4

Netaji Subhas University of Technology   *2020 - 2022*
Master of Technology (M.Tech.) Computer Science   Dept. Rank 1, Gold Medalist

Indira Gandhi Delhi Technical University for Women   *2014-2018*
Bachelor of Technology (B.Tech.) Computer Science & Engineering   First Class with Distinction

ACADEMIC POSITIONS

Boston Children's Hospital aff. Harvard Med. School   June - Aug 2025
Comp. Health Informatics Program w/ Dr. Majumder   *Boston, USA*

* 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   Jan - May 2025
Research Fellow & Lead for AI.Data Lab   *Georgia, USA*

* 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   Jan - Aug 2023
Engineering Dept., Research Assistant w/ Dr. Mancini   *Cambridge, UK*

* 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   Aug - Dec 2022
Saïd Business School, Research Assistant   *Remote, UK*

* 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]

* Das S, Ge Y, Guo Y, **Rajwal S**, et al. 2-layer RAG for low-resource medical QA using Reddit [JMIR] [AMIA]

* Guo Y, **Rajwal S**, et al. 2023. Generalizable NLP for Migraine Reporting from Social Media. [AMIA] [Code]

* **Rajwal S**, Garg S, Abdel-Salam R, Zayed A. 2025. *Do Biased Models Have Biased Thoughts?* [COLM][Code]

* **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]

* **Rajwal S**, et al. 2024. NLP & LLMs for SDOH: Protocol for Systematic Review. [Paper], [Protocol]

* Das S, Walker D, **Rajwal S**, et al. Self-Harm using sodium nitrite in an online suicide community. [JMIR][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]

* A bi-directional learning framework for AI analysis in global digital health. MEDINFO'25. [Poster]

WORKING PAPERS

* Pandey A., **Rajwal S.**, 2025. *Ethical judgment of LLMs in financial market abuse* (under review ACM ICAIF)

* Walker D., Love J., **Rajwal S.**, et al. 2025. *CARE-SD to assess stigmatizing & doubt-markers in EHR.* [arXiv]

* 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]

* The Unreasonable Benchmark. under review at NeurIPS 2025.

* 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]

REVIEWING ACTIVITIES

* **AMIA** 2025: Informatics Summit, Clinical Informatics Conference, Annual Symposium

* American Public Health Association (APHA) annual meeting 2025

* 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

* 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

SCHOLARSHIPS

* Emory LGS professional development funds awardee 2025 (Boston, 2025)

* WiML NeurIPS Travel Fund by NSF (Canada, 2024)

* Scholarship approved to participate in 4th Annual Stanford AI+HEALTH conference (Virtual, 2024)

* Emory Women in Natural Sciences Fellowship for PhD (Georgia, 2023-25)

* Vice Chancellor's Gold Medalist (2023)

* AICTE Post Graduate scholarship by Govt. of India (New Delhi, 2020-22)

* AI Education Foundation travel grant to present at Mediterranean ML Summer School (Italy, 2022)

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   Pune, India
Associate Software Engineer, Full Time   *2018 - 2020*

Accenture Research Lab   Bangalore, India
Innovations for Sustainability, R&D Senior Analyst Intern   *Feb - Aug 2022*

EXTRA-CURRICULAR

* Jones Program in Ethics - Laney Graduate School Ambassador (2025); CSI PhD Ambassador (2024–25)

* NSF AI Institute for Societal Decision Making Student Leadership Council (SLC)

* Project lead at Cohere labs, open source community

* Mentor at Emory University Association of Women in Science 2023-2024

* 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

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