

Swati Rajwal

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Education

Ph.D. in CS 2023-28
Emory University, **GPA:** 3.959/4

M.Tech. in CS 2020-22
Netaji Subhas University of Technology
GPA: 8.95/10

Teaching Experience

- Machine Learn., Prof. Eugene (Emory'24)
- Artificial Intel., Prof. Eugene (Emory'23)
- Data Structures, Prof. Pinaki (NSUT'21)

Fellowships & Awards

- Vice-Chancellor's **Gold Medalist** 2023
- **Women in Natural Science** Fellow 2023
- **Summer School** Travel Award, Italy 2022
- Top 25 Winner, **Azure Dev.** Stories 2021

Presentations

- 2024, June: **Poster @ NAACL**
- 2024, May: **CL4Health @ LREC-COLING**
- 2024, April: **G.Tech. Biomedical AI Symp.**
- 2022, Sept.: **Poster @M2L School**

Sessions Conducted

- 9th SMM4H @ACL 2024 🔗
- RL in Financial Markets 🔗
- R&D Career Paths & More! 🔗
- Customer churn prediction, Azure 🔗
- Union of AI and Chatbots 🔗

Memberships

- **Rewriting the Code**
- **Women Techmakers Ambassador** 2022
- **WiDS Ambassador** 2024 Atlanta Cohort
- Author at **Towards DS, Analytics Vidhya**

Academic Positions

Cambridge University

Jan-Aug 2023

Researcher (CBL Lab)

- Investigated fluctuating values of statistical learning in back pain
- Designed PsychoPy task to record pain & clinical data
- Processed RSTAN data recorded from a **3-armed bandit algo**-based task
- Facilitated EPSRC application- received 1,216,800 CPU & 1K GPU hours

Oxford University

Aug-Dec 2022

Software RA (Quant. Customer Analytics)

- Project on consumer reaction to their synthetic facial lookalikes
- Applied Generative adversarial networks (**GANs**) in marketing & ads.
- Automated image processing using the StyleGAN3 model in Python.
- With Dr. Efremova, Prof. Hadi, Prof. Andrew, & WPP (industry partner)

Latest Publications

- **Rajwal, S.**, et al. (2024). Unveiling Voices: Identification of Concerns in a Social Media Breast Cancer via NLP. LREC-COLING. [[Paper](#)], [[Code](#)]
- **Rajwal, S.**, et al. (2024). Knowledge-Enhanced In-Context Learning for Medical Error Detection & Correction. NAACL. [[Paper](#)], [[Code](#)]
- **Rajwal, S.** (2023) LiHiSTO: A Comprehensive List of Hindi Stopwords. Springer. [[Paper](#)], [[Code](#)]
- S Das, D Walker, **Rajwal S.**, et al. (2023) Emerging Trends in Self-Harm: Sodium Nitrite and an Online Suicide Community. JMIR. [[Paper](#)], [[Code](#)]
- Guo, Y., **Rajwal, S.**, et al. (2023) Generalizable NLP Framework for Migraine Reporting from social media. AMIA [[Paper](#)], [[Code](#)]
- **Rajwal, S.** (2023). Design of a Chatbot for Children Based on Emotional Intelligence, Springer. [[Paper](#)]
- **Rajwal, S.** & Aggarwal (2023). CNN-Based EEG Signal Analysis: A Systematic Review. Springer. [[Paper](#)]

Industry Positions

Accenture Technology

Feb-Aug 2022

Senior R&D Analyst (Intern)

- Created a tool to gauge **software solution frugality**.
- Tool suggests best practices and **trade-offs** for frugal software.
- Presented PoC & project outcomes to stakeholders and research team.

Eaton Corporation

2018 - 2020

Associate Software Engineer (Full Time)

- Implemented smart home intents to control device via Google assistant.
- Developed Angular dashboard to push Eaton's data to Azure DB
- Implemented CRUD ops. for the 'routines' in smart devices **Ionic App**
- Analyzed business priorities and finalized the entire lab's layout reports for Software validation and RCA.