

Amartya Roy

Curriculum Vitæ

Kalikapur Main Road
700001, Jadavpur, Kolkata
India

+91-7992959042
✉ ramartya18@gmail.com
in amartyaroy7
Amartya Roy

Education

- 2020–2023 **Master of Technology in Computer Science**, *Jadavpur University*, Kolkata, India, CGPA: 8.76
Supv: Prof. Dr. Kamal Sarkar
- 2016–2020 **Bachelor of Technology in Electronics & Electrical Engineering**, *Kalinga Institute of Industrial Technology*, Bhubaneswar, India, CGPA: 8.82
Supv: Prof. Rishi Khanna

Employment

- 2023–Present **Senior Machine Learning Engineer**, *Bosch*, Bangalore
i) Responsible for building foundation language model for generating Robot Framework Script given simple English instructions([link](#))
ii) Core part of the team that is building Drowsiness Detection System for Vehicle
- 2019–2020 **Machine Learning Intern**, *HighRadius*, Bhubaneswar
Anatomized the Order-to-Cash cycle for multiple industries & sectors and led efforts towards cutting-edge implementation of Machine learning in the Accounts Receivables process.

Research Interest

NLP, Sci-ML, LLM(*The Theory for Transformers and In-Context Learning, Scalable and Efficient Alignment for Large Language Models*) Theory of Deep Learning. PDEs

Publications

Journal

- A. Mukherjee, A. Roy, Size Lowerbounds for Deep Operator Networks, *Transactions of Machine Learning Research* (accepted), 2024. ([link](#))

Workshop

- Paramita Das, Amartya Roy, Animesh Mukherjee, WikiTransfer: Knowledge transfer from High-Resource to Low-Resource Language in Multilingual Wikipedia, *Wiki Workshop (11th edition) – June 20, 2024*, ([link](#))

Under Review

- A. Roy, K. Sarkar, C. Mondal, Bengali Text Classification: A New multi-class Dataset and Performance Evaluation of Machine Learning and Deep Learning Models, *Language Resource and Evaluation*, 2024, ([link](#))

- A. Roy, D. Khanna, A Das, K. Ghosh, Bias Mitigation Using Reinforcement Learning
- P. Das, A. Roy, A. Mukherjee, Knowledge Intergrity in Multilingual Corpus using LLM

Invited Talks

- India ML Reading Group ([link](#))

Achievements

- Got selected in ACM India Summer Schools 2022
- Got selected in Indian Statistical Institute Winter Deep Learning School 2023.