



# Subhajit Chaudhury

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## CONTACT INFORMATION

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## EDUCATION

**The University of Tokyo, Japan** Apr 2018 - Mar 2021  
PhD, Graduate School of Information Science and Technology

**Indian Institute of Technology (IIT), Bombay, India** Jul 2012 - Aug 2014  
M.Tech, Department of Electrical Engineering

**Jadavpur University, India** Jul 2008 - Jun 2012  
B.E.(Hons.) Department of Electrical Engineering

## WORK EXPERIENCE

**Senior Research Scientist, IBM Research, New York** Apr 2017- present  
My work focuses on improving the safety, reliability and trustworthiness of LLMs.

- **Safe & Trustworthy LLMs:** Developed [Granite Guardian](#), a suite of safeguard models designed to detect risks such as social bias, jailbreaking, and hallucination in LLMs. Granite Guardian ranks at the top of [GuardBench](#), the leading benchmark for evaluating guardrail models. Our model is an industry-leading solution for hallucination detection in RAG settings.
- **Memory-Augmented LLMs:** Designed [Larimar](#), a brain-inspired architecture for enhancing LLMs with distributed episodic memory, enabling dynamic, one-shot knowledge updates without costly re-training. Introduced [EpMAN](#), a method for processing long contexts using episodic memory, improving recall and question-answering robustness across 16k–256k tokens.

**Researcher, NEC Central Research Labs, Japan** Oct 2014 - Mar 2017  
Developed advanced computer vision algorithms for real-time anomaly detection in video surveillance systems. My work was integrated into NEC's flagship products for [road maintenance](#) and [airport runway monitoring](#), contributing to enhanced infrastructure safety and efficiency. The project gained recognition and was featured in [Japanese media](#), highlighting its industry impact.

## SELECTED PUBLICATIONS

- **Subhajit Chaudhury\***, Payel Das\*, Sarathkrishna Swaminathan, Georgios Kollias, Elliot Nelson, Khushbu Pahwa, Tejaswini Pedapati, Igor Melnyk, Matthew Riemer, [EpMAN: Episodic Memory Attention for Generalizing to Longer Contexts](#), **ACL** 2025

- Inkit Padhi\*, Manish Nagireddy\*, Giandomenico Cornacchia\*, **Subhajit Chaudhury\***, Tejaswini Pedapati\* *et al.* [Granite Guardian](#), **NAACL** 2025 (Industry Track)

- Payel Das\*, **Subhajit Chaudhury\***, Elliot Nelson, Igor Melnyk, Sarathkrishna Swaminathan, Sihui Dai, Aurelie Lozano, *et al.* [Larimar: Large Language Models with External Episodic Memory Control](#), **ICML** 2024.

- Kinjal Basu, Ibrahim Abdelaziz, **Subhajit Chaudhury**, Soham Dan *et al.* [API-BLEND: A Comprehensive Corpora for Training and Benchmarking API LLMs](#), **ACL** 2024

- Zhang, Shuai, Hongkang Li, Meng Wang, Miao Liu, Pin-Yu Chen, Songtao Lu, Sijia Liu, Keerthiram Murugesan, and **Subhajit Chaudhury**, [On the Convergence and Sample Complexity Analysis of Deep Q-Networks with -Greedy Exploration](#), **NeurIPS** 2023

- **Subhajit Chaudhury**, Sarathkrishna Swaminathan, Daiki Kimura, Prithviraj Sen, Keerthiram Murugesan *et al.*, [Learning Symbolic Rules over Abstract Meaning Representations for](#)

## Textual Reinforcement Learning, ACL 2023

- Maxwell Crouse, Pavan Kapanipathi, **Subhajit Chaudhury**, Tahira Naseem *et al.* **Laziness Is a Virtue When It Comes to Compositionality in Neural Semantic Parsing**, ACL 2023
- Heshan Devaka Fernando, Han Shen, Miao Liu, **Subhajit Chaudhury**, Keerthiram Murugesan, and Tianyi Chen, **Mitigating Gradient Bias in Multi-objective Learning: A Provably Convergent Approach**, ICLR 2023
- **Subhajit Chaudhury**, Sarathkrishna Swaminathan, Chulaka Gunasekara *et al.* **X-FACTOR: A Cross-metric Evaluation of Factual Correctness in Abstractive Summarization**, EMNLP, 2022.
- Keerthiram Murugesan, **Subhajit Chaudhury**, and Kartik Talamadupula, **Eye of the Beholder: Improved Relation Generalization for Text-based Reinforcement Learning Agents**, AAAI, 2022.
- **Subhajit Chaudhury**, Prithviraj Sen, Masaki Ono *et al.* **Neuro-symbolic Approaches for Text-based Policy Learning**, EMNLP 2021.
- **Subhajit Chaudhury**, Daiki Kimura, Kartik Talamadupula, Michiaki Tatsubori, Asim Munawar, and Ryuki Tachibana, **Bootstrapped Q-learning with Context Relevant Observation Pruning to Generalize in Text-based Games**, EMNLP 2020.

## TECHNICAL SKILLS

- **Technical Skills:** *Natural Language Processing, Reinforcement Learning, Machine Learning, Computer Vision, Human-Computer Interaction*
- **Programming Languages:** *Python, C/C++, Java*
- **Frameworks and Tools:** *Pytorch, Tensorflow, scikit-learn, Matlab, ROS, Gazebo, OpenGL*

## MENTORSHIP

- **Akshat Gupta**, Ph.D. Student, UC Berkeley, USA
- **Sihui (Sophie) Dai**, Ph.D. Student, Princeton University, USA
- **Shib Sankar Dasgupta**, Ph.D. Student, University of Massachusetts Amherst, USA
- **Heshan Fernando**, Ph.D. Student, Rensselaer Polytechnic Institute, USA
- **Maurício Gruppi**, Ph.D. Student, Rensselaer Polytechnic Institute, USA
- **Thomas Carta**, Ph.D. Student, INRIA, France
- **Tristan Matthieu Stampfler**, MS Student, École Polytechnique, France

## BLOGS

- 1) **IBM's safety checkers top a new AI benchmark**, Apr 2025
- 2) **How memory augmentation can improve large language model efficiency and flexibility**, Sep 2024
- 3) **Coverage of the crack-detection work at NEC in Nikkei newspaper**, Nov 2021
- 4) **Coverage of sports activity detection work for Olympics 2020 in Nikkei**, Mar 2020

## PROFESSIONAL ACTIVITIES

- Senior Program committee member for AAAI'23, AAAI'24.
- Program Committee member: IJCAI'23, AAAI'22, AAAI'20, IJCAI'20.
- Reviewer: ACL'23, TMLR'23, CVPR'21, CVPR'22, IJCAI'19, ICRA'20, ICRA'18, IROS'18.

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Website: <https://subhajitchaudhury.github.io>

See full list of publications here: <https://scholar.google.com/citations?user=EBTpFrQAAAAJ&hl=en>