

Rishav Chourasia

[rishav1.github.io](https://github.com/rishav1) github.com/rishav1 [in linkedin.com/in/rishav-chourasia](https://www.linkedin.com/in/rishav-chourasia) [\(+65\) 97168493](tel:+6597168493) [✉ rishav1@comp.nus.edu.sg](mailto:rishav1@comp.nus.edu.sg)
Cubicle 1, AI Research Lab 3B, UTown, 2 College Avenue West, #01-02, Singapore 138607.

Education

- Aug 2019 – Jun 2023 (expected) **Ph.D. Student** in Computer Science, *National University of Singapore (NUS)*, Singapore
Advisor : Dr. Xiaokui Xiao
GPA : 4.83/5.0
- July 2014 – June 2018 **Bachelor of Technology**, *Indian Institute of Technology (IIT)*, Guwahati
Major in Computer Science & Engineering
GPA : 9.26/10.0

Publications

- > **R. Chourasia**, N. Shah, *Forget Unlearning : Towards True Data-Deletion in Machine Learning*.
→**ICML, 2023**. Also to be presented at **FORC, 2023**.
- > **R. Chourasia**, B. Enkhtaivan, K. Ito, J. Mori, I. Teranishi, H. Tsuchida, *Knowledge Cross-Distillation for Membership Privacy*.
→**PETS, 2022**.
- > **R. Chourasia**, J. Ye, R. Shokri, *Differential Privacy Dynamics of Langevin Diffusion and Noisy Gradient Descent*.
→**NeurIPS spotlight, 2021**.
- > **R. Chourasia**, A. Singla, *Unifying Ensemble methods for Q-learning via Social Choice Theory*.
→**NeurIPS LIRE Workshop, 2019**.
- > **R. Chourasia**, V. Saxena, N. Yadala, F. C-H. Rhee, *Visualization of Two-dimensional IT2 Fuzzy Membership Functions using General Type-2 Fuzzy Membership Functions*.
→**IFSA, 2017**.
- > V. Saxena, N. Yadala, **R. Chourasia**, F. C-H. Rhee, *Type Reduction Techniques for Two-dimensional IT2 Fuzzy sets*.
→**FUZZ-IEEE, 2017**.

Experiences

- May 2022 **Student Researcher, Security & Privacy Team, Google Brain**
Aug 2022 Worked with researchers on Differentially Private Uncertainty Estimation in Machine Learning.
> Mentor : Dr. Dj.Dvijotham, Dr. Abhradeep Thakurta
[Differential Privacy](#) [Machine Learning](#)
- Aug 2019 **Google Summer of Code student developer, Chainer, NumFOCUS**
May 2019 Contributed to an experimental Compiler that converts *Chainer* models to a standard Intermediate Representation called *Open Neural Network Exchange (ONNX)*.
[Chainer-Compiler](#) [Open Neural Network Exchange](#)
- Jun 2019 **Data Scientist Internship, Cure.Fit, Bangalore, India**
Apr 2019 Developed demand prediction tools for Eat.Fit kitchens' inventory procurement.
[Demand Prediction](#) [Machine Learning](#)
- Feb 2019 **Research Internship, Max Planck Institute for Software Systems, Saarbrücken, Germany**
Nov 2018 Studied properties of committee voting rules and their manifestation when applied to ensemble based Reinforcement learning.
> Mentor : Dr. Adish Singla.
[Social Choice Theory](#) [Reinforcement Learning](#) [Multi-winner Voting rules](#)
- Nov 2018 **Software Development Engineer, Amazon India, Bangalore, India**
Jul 2018 Contributed to development and operation efficiency of fraud detection service for the retail and digital order evaluations.
[Fraud Detection](#) [Java service](#)
- Jul 2017 **Software Development Internship, Amazon India, Bangalore, India**
May 2017 Developed a platform for keeping track of deployed configurations of Amazon's fraud detection pipelines.
[Fraud Detection](#) [Java service](#)
- Jul 2016 **Research Internship, Hanyang University, ERICA, South Korea**
May 2016 Worked on efficient type-reduction techniques for higher order multidimensional fuzzy sets.
> Mentor : Dr. Frank Rhee.
[Fuzzy Logic](#)

Honors & Awards

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| 2022 | Research Achievement Award | School of Computing, National University of Singapore. |
| 2019 | NUS Research Scholarship for Ph.D. | School of Computing, National University of Singapore. |
| 2018 | Research Fellowship (3 months) | Max Planck Institute for Software Systems. |
| 2016 | Summer Research Fellowship Program (SRFP) | Indian Academy of Sciences. |
| 2015 | Department Topper | Indian Institute of Technology, Guwahati. |