# Saswat Das

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Responsible AI, (Differential) Privacy, Fairness, Security

### Education

University of Virginia (UVA) Aug. 2023 - Present Ph.D. in Computer Science Charlottesville, Virginia National Institute of Science Education and Research (NISER) Jul. 2018 - May 2023 Integrated M.Sc. (BS + MS) in Mathematics (Minor in Computer Science) Bhubaneswar, India Experience EECS, Syracuse University June 2022 - July 2023 Visiting Research Scholar Syracuse, NY • Mentor: Dr. Ferdinando Fioretto (now at UVA) • Focus Areas: Differential Privacy, Fairness, Responsible AI School of Computer Sciences, NISER Aug. 2021 - May 2023 MS Research Scholar Bhubaneswar, India • Mentor: Dr. Subhankar Mishra • Focus Areas: Differential Privacy, Security, Responsible AI School of Computer Sciences, NISER Dec. 2019 - Jan. 2020 BS Winter Research Intern Bhubaneswar, India • Mentor: Dr. Rishiraj Bhattacharyya (Now at the University of Birmingham) • Focus Areas: Blockchain, P2P Networks, Cryptography, Zero-Knowledge Proofs School of Computer Sciences, NISER May 2019 - July 2019 BS Summer Research Intern Bhubaneswar, India • Mentor: Dr. Rishiraj Bhattacharyya (Now at the University of Birmingham) • Focus Areas: Blockchain, P2P Networks, Cryptography Publications Privacy and Bias Analysis of Disclosure Avoidance Systems 2023 Ferdinando Fioretto, Keyu Zhu, Saswat Das, Pascal van Hentenryck, Christine Task Accepted at AAAI-24 Examining Deidentified Data Quality using NIST Datasets and Tools 2023 Saswat Das, Razane Tajeddine, Ferdinando Fioretto Accepted at NIST CRC 2023 Book Chapters Advances in Differential Privacy and Differentially Private Machine Learning: A Survey 2023

Saswat Das, Subhankar Mishra

Information Technology Security (Springer Nature)

## Service/Reviewing

- Program Committee Member PPAI 2024
- Program Committee Member AAAI 2024
- Reviewer AAMAS 2023
- External Reviewer National Institute of Standards and Technology (NIST) (2023)

# Selected Honours/Achievements

- Shortlisted for the ELLIS Europe PhD Programme (2023)
- DISHA Fellowship, Department of Atomic Energy, Government of India (2018-2023): Received a scholarship for attending college which includes a monthly stipend for food and lodging and an annual contingency grant for research endeavours.
- Selected for the Winter School on Theoretical Computer Science at IIT Delhi (2022)
- Selected for the prestigious TIFR Visiting Students' Research Programme (VSRP), 2022 in Technology & Computer Science
- National Talent Search (NTS) Scholarship, NCERT, India (2016)

# Volunteering/Organising

# Reading Group on Responsible Generative AI, University of Virginia

Oct. 2023 - Present

Organiser

at~UVA

Organising the reading group on responsible generative AI at the University of Virginia where members of various
research groups that work on responsible AI/generative AI come together to discuss recent advancements and future
directions of work.

#### CodeInPlace, Stanford University

Apr. 2021 - May 2021

Section Leader/Teaching Assistant

Online; Organised by Stanford University

• Taught coding to a section of students from a global pool of applicants using material from the first half of Stanford University's popular course, CS106A.

#### School of Mathematical Sciences, NISER

Feb. 2021 - May 2021

Department Mathematics Tutor

At NISER

• Served as a mathematics tutor to freshmen in the spring of 2021 as part of an initiative by mathematics majors at the School of Mathematical Sciences, NISER.

### Aveti Learning

Apr. 2020 - Sep 2022

Volunteer/Tutor/Mentor

Online

Served as an online mathematics tutor and mentor to high school students in rural Eastern India to make quality
education and college advice more accessible.

#### Avanti Fellows

Sep. 2018 - Aug. 2019

Section Leader/Teaching Assistant

Dhenkanal, India

• Served as a mentor and mathematics tutor to high school students at JNV Dhenkanal as part of the acclaimed Avanti Fellows programme.

## Workshops and Summer/Winter Schools

### Technion: Summer School on Computer & Cyber Security

September 2020

Attendee

Organised by Technion, Israel

#### IIT-D: Winter School on Theoretical Computer Science

December 2022

Accepted Attendee

Organised by IIT-Delhi

• Did not attend due to academic schedule conflicts.

## USENIX SOUPS '23: Workshop on Privacy Threat Modeling

August 2022

Presenter/Attendee

Organised by MITRE at USENIX SOUPS 2023

• Presented a short paper on context-aware fair privacy threat modeling.

## Leadership / Extracurricular

#### Undergraduate Committee of the School

 $Student\ Representative$ 

Dec. 2020 - Dec. 2022 School of Mathematical Sciences, NISER

- Served as one of two student representatives to the Undergraduate Committee of the School (UGCS) of Mathematical Sciences, NISER, an honour bestowed upon well-performing students by the school.
- Helped professors design and develop the academic course structure, pedagogy, and evaluation schemes of the undergraduate programme.

Inventa Magazine

July 2021 - Dec. 2021

Editor

IISERs, NISER, CeBS, and IISc (India)

• Worked on the editorial board for Inventa, an annual national science outreach magazine published jointly by the premier public research institutes of India: NISER, CeBS, IISc, and the IISERs.

## Quizone (Campus Quiz Club), NISER

May. 2019 - Nov. 2021

President

NISER

- Served as the president of Quizone, the quiz club of NISER, HBNI, for two consecutive terms.
- Organised and hosted quizzes (online and offline), which involved planning and running logistics, making questions, maintaining a social media presence for the club, engaging with partners and sponsors etc.
- Helped codify club rules and regulations by drafting a club constitution.

## Cultural Committee, NISER

Aug. 2019 - Nov. 2021

Editor

NISEE

• Served as a member of the cultural committee of NISER, which is responsible for planning and organising cultural events in the college.

# Delhi Public School Kalinga

Sep. 2016 - July 2018

Head Boy (Students' Council President)

Odisha, India

• Served as the Head Boy (2017-18) and Vice Head Boy (2016-17) of Delhi Public School Kalinga, in a role which involved representing the school on an interschool level, presiding over the students' council, organising events, and looking after the welfare and interests of the students of the school.

## Skills (Not Exhaustive)

Programming/Scripting Languages: Python, R, C++, HTML/CSS, SQL, LATEX

Developer Tools: VS Code, SLURM, AWS Cloud, R Studio, etc.

Selected Libraries: Opacus, OpenDP/SmartNoise, PyTorch, Captum, sdcMicro + other common libraries

Languages: English, Hindi, Odia, (familiarity with) French