Ph.D. Candidate, School of Computing
National University of Singapore

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□ bishwamittra.github.io
dblp, scholar

Bishwamittra Ghosh

Research Interests

Fairness, interpretability, and explainability in machine learning Formal verification of machine learning

Education

- 01.18–06.23 **Ph.D. in Computer Science**, *National University of Singapore*, Singapore.
- (Expected) Thesis advisor: Dr. Kuldeep S. Meel
- 02.13–09.17 **BSc. in Computer Science and Engineering**, *Bangladesh University of Engineering and Technology*, Bangladesh, CGPA: 3.83 out of 4 (with Honours).
 - Thesis advisor: Dr. Mohammed Eunus Ali
 - 2012 **Higher Secondary Certificate**, *Satkhira Government College*, Satkhira, Bangladesh, GPA: 5 out of 5.

Group: Science

2010 **Secondary School Certificate**, *Satkhira Government High School*, Satkhira, Bangladesh, GPA: 5 out of 5.

Group: Science

Publications

Conference Papers

- AAAI-22 Algorithmic Fairness Verification with Graphical Models

 <u>Bishwamittra Ghosh</u>, Debabrota Basu, Kuldeep S. Meel
- AAAI-21 Justicia: A Stochastic SAT Approach to Formally Verify Fairness Bishwamittra Ghosh, Debabrota Basu, Kuldeep S. Meel
- AAAI-20 A MaxSAT-based Framework for Group Testing
 Lorenzo Ciampiconi, <u>Bishwamittra Ghosh</u>, Jonathan Scarlett, Kuldeep S. Meel
- ECAI-20 Classification Rules in Relaxed Logical Form
 Bishwamittra Ghosh, Dmitry Malioutov, Kuldeep S. Meel
- AIES-19 IMLI: An Incremental Framework for MaxSAT-Based Learning of Interpretable Classification Rules

Bishwamittra Ghosh, Kuldeep S. Meel

VLDB-18 The Flexible Socio Spatial Group Queries

<u>Bishwamittra Ghosh</u>, Mohammed Eunus Ali, Farhana M. Choudhury, Sajid Hasan Apon, Timos
Sellis, Jianxin Li

Journal Papers

JAIR-22 Efficient Learning of Interpretable Classification Rules
<u>Bishwamittra Ghosh</u>, Dmitry Malioutov, Kuldeep S. Meel

TSAS-21 Social-Spatial Group Queries with Keywords
Sajid Hasan Apon, Mohammed Eunus Ali, Bishwamittra Ghosh, Timos Sellis

Professional Experiences

Conference Talks

AAAI-22, AAAI-21, AAAI-20, ECAI-20, CP-19, VLDB-19, IJCAI-19, AIES-19

Academic Reviewer

NeurIPS (2022, 2021), AAAI (2023, 2022), AIES (2022), TKDE (2020)

Research Intern

11.21-02.22 INRIA, Lille-Nord, France

06.21-08.21 Goldman Sachs, Singapore

03.20-06.20 Max Planck Institute For Software Systems, Kaiserslautern, Germany

Graduate Assistant

2018–2021 School of Computing, National University of Singapore

Lecturer

10.17-01.18 Department of CSE, United International University (UIU), Bangladesh

Technical Skills

Advanced Python, Solvers (SAT, MaxSAT, SSAT, SMT, ILP), LATEX

Intermediate TensorFlow, C/C++, Java

References

Kuldeep S. Meel

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Daniel Neider

Professor, Technical University of Dortmund, Germany

Email: daniel.neider@cs.tu-dortmund.de

Debabrota Basu

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