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

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dblp, scholar

Bishwamittra Ghosh

Research Interests

Fairness, interpretability, and explainability in machine learning Machine learning with formal methods.

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**, Bangladesh University of Engineering and Technology, Bangladesh.

Thesis advisor: Dr. Mohammed Eunus Ali

Publications

Conference Papers

- AAAI-22 Algorithmic Fairness Verification with Graphical Models
 Bishwamittra Ghosh, 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, Bishwamittra Ghosh, 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
 Bishwamittra Ghosh, Dmitry Malioutov, Kuldeep S. Meel
- TSAS-21 Social-Spatial Group Queries with Keywords
 Sajid Hasan Apon, Mohammed Eunus Ali, <u>Bishwamittra Ghosh</u>, 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)

Research Internship

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, TensorFlow, Solvers (SAT, MaxSAT, SSAT, SMT, ILP), \LaTeX Intermediate C/C++, Java

References

Kuldeep S. Meel
 Assistant Professor, School of Computing, National University of Singapore, Singapore Email: meel@comp.nus.edu.sg

Daniel Neider

Professor, Carl von Ossietzky Universität Oldenburg, Germany

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Debabrota Basu

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