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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**, 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, <u>Bishwamittra Ghosh</u>, Jonathan Scarlett, Kuldeep S. Meel
- ECAI-20 Classification Rules in Relaxed Logical Form
  <a href="Bishwamittra Ghosh">Bishwamittra Ghosh</a>, 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
  <a href="Bishwamittra Ghosh">Bishwamittra Ghosh</a>, 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 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, Carl von Ossietzky Universität Oldenburg, Germany

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Debabrota Basu

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