

When Algorithms Mirror Inequality: Structural Encoding of Fairness Disparities in Early Childhood Risk Prediction

Kismat Raj Vishwakarma¹, Kumkum Basu^{2,3}, and Abhinaba Basu¹

¹National Institute of Electronics & Information Technology (NIELIT), India

²Uttar Pradesh Basic Education Department, India

³Indian Institute of Technology (IIT) Patna, India

Corresponding Author

Kismat Raj Vishwakarma

National Institute of Electronics & Information Technology (NIELIT), India

Email: kismat.vishwakarma@gmail.com

Acknowledgments

The authors thank the National Center for Education Statistics (NCES) for making the ECLS-K:2011 public-use data available.

Declaration of Conflicting Interests

The authors declare no competing interests.

Funding

This research received no specific grant from any funding agency in the public,

commercial, or not-for-profit sectors.

Data Availability

The ECLS-K:2011 public-use data file is freely available from NCES at
<https://nces.ed.gov/ecls/dataproducts.asp>. All analysis code is available at
<https://github.com/kismatraj/ecls-fairness-study>.