

Responsible Data Science

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ACM Reference Format:

H. V. Jagadish. 2019. Responsible Data Science. In *The Twelfth ACM International Conference on Web Search and Data Mining (WSDM '19), February 11–15, 2019, Melbourne, VIC, Australia*. ACM, New York, NY, USA, 1 page. <https://doi.org/10.1145/3289600.3291287>

ABSTRACT:

Technologists have a responsibility to develop Data Science and AI methods that satisfy fairness, accountability, transparency, and ethical requirements. This statement has repeatedly been made in recent years and in many quarters, including major newspapers and magazines. The technical community has responded with work in this direction. However, almost all of this work has been directed towards the decision-making algorithm that performs a task such as scoring or classification. This presentation examines the Data Science pipeline, and points out the importance of addressing responsibility in all stages of this pipeline, and not just the decision-making stage. The presentation then outlines some recent research results that have been obtained in that regard.

SPEAKER:

Professor H. V. Jagadish is Bernard A. Galler Collegiate Professor of Electrical Engineering and Computer Science, and Distinguished Scientist at the Institute for Data Science, at the University of Michigan in Ann Arbor. Prior to 1999, he was Head of the Database Research Department at AT&T Labs, Florham Park, NJ. Professor Jagadish is well known for his broad-ranging research on information management, and has approximately 200 major papers and 37 patents. He is a fellow of the ACM, “The First Society in Computing” (since 2003) and of AAAS (since 2018), and has served on the board of the Computing Research Association (since 2009). He has been an Associate Editor for ACM Transactions on Database Systems (1992–1995), Program Chair for SIGMOD (1996), Program Chair for ISMB (2005), a trustee of the VLDB (Very Large DataBase) foundation (2004–2009), Founding Editor-in-Chief of the Proceedings of the VLDB Endowment (2008–2014), and Program Chair of for VLDB (2014). Since 2016, he is Editor of the Morgan&Claypool “Synthesis” Lecture Series on Data Management. Among his many awards, he won the ACM SIGMOD Contributions Award in 2013 and the David E. Liddle Research Excellence Award (University of Michigan) in 2008.



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WSDM '19, February 11–15, 2019, Melbourne, VIC, Australia

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ACM ISBN 978-1-4503-5940-5/19/02.

<https://doi.org/10.1145/3289600.3291287>