

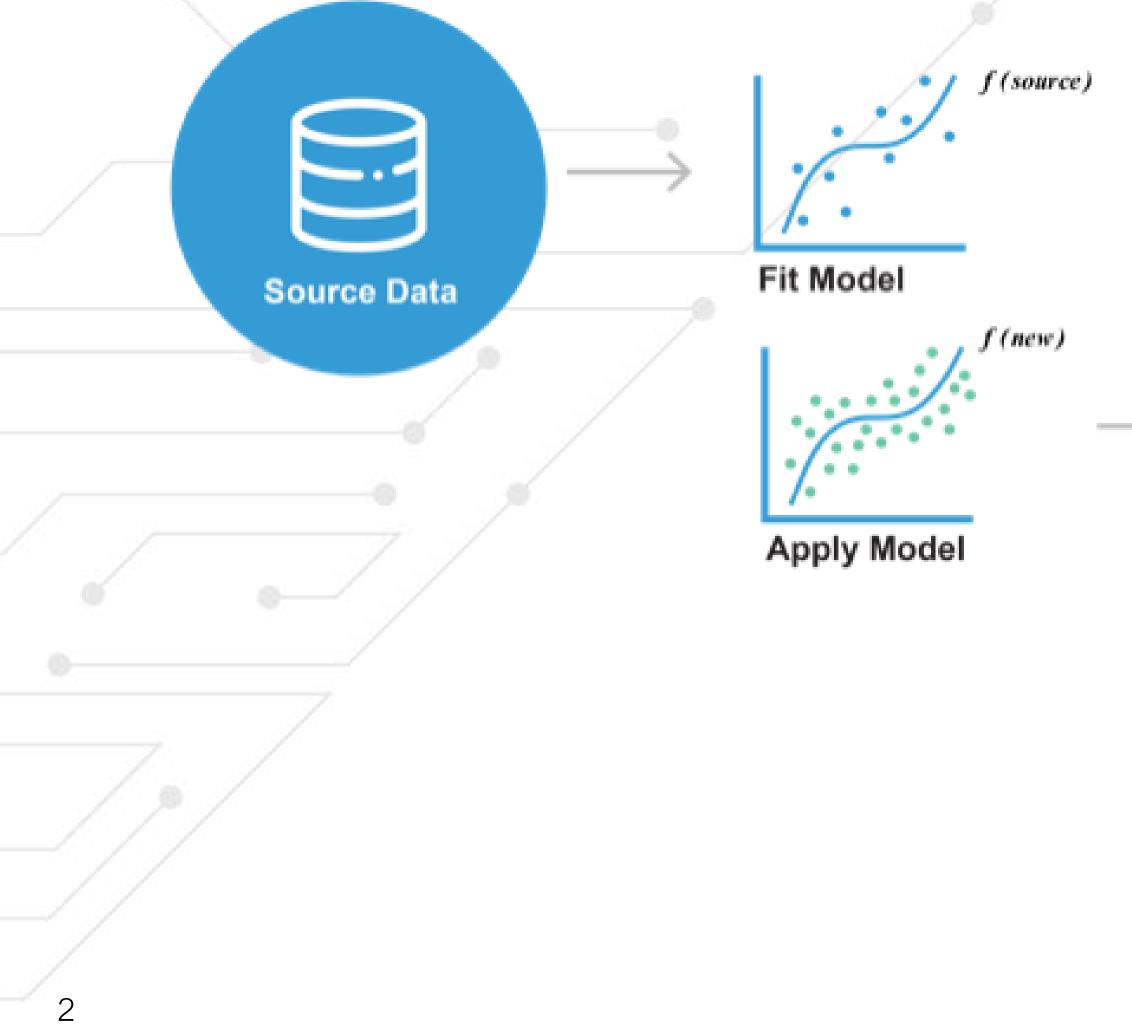
Enabling COVID-19 Data Access Using Data Synthesis

Khaled El Emam

27th October 2020



The Synthesis Process







Synthetic Data





Privacy Assurance

Matching a synthetic record

to a real person

• Given the match, would an

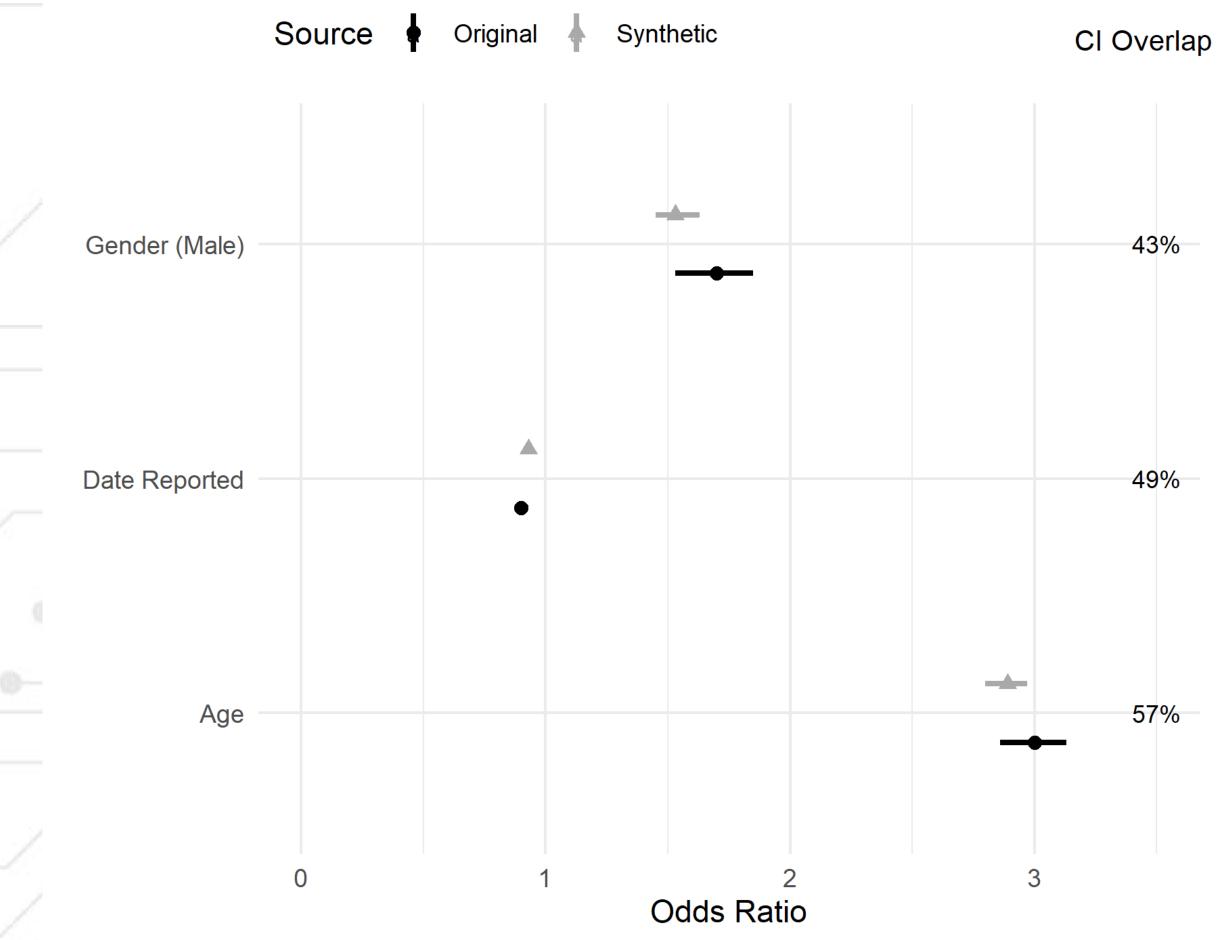
adversary learn something

new

Real DataSynthetic Data0.0340.0056



Logistic Regression Model



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Variable	Real Data	Synthetic Data
Age	3*	2.89*
Gender (Male)	1.7*	1.53*
Date Reported	0.9*	0.93*



