Fair Classification with Counterfactual Learning

Recently, new approaches have emerged to deal with different kinds of biases in the data. Counterfactual learning copes with biases in the policy used for sampling the data to evaluate and learn new policies, and fairness-aware learning aims at learning fair models to avoid discrimination against individuals/groups. In this talk, I present a counterfactual framework to model fair learning which benefits from counterfactual reasoning to achieve more fair decision support systems. A definition of fairness is utilized to determine the bandit feedback in the counterfactual setting that learns a classification strategy from the offline data.

Dr. Maryam Takavol
Technical University of Dortmund
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nach Anmeldung mit Benutzername und Passwort.

contact: Helgard Fischer, 07531-88-2413
sektionsreferentin.math-nat@uni-konstanz.de