Measuring Impact: New Statistical Methods for Assessment Accuracy and Transparency

Cook County's 1.2m residential properties are revalued using a nonlinear tree-based model. This talk will combine visualization and analytics to share some lessons learned about model comparison and an algorithm for model transparency. First, we'll show how we rigorously conduct different model tests and visualize IAAO statistics for easy comparison. Once we have a model we trust, our goal is to earn the trust of the public who are becoming increasingly aware of AI tools and their pitfalls. We'll discuss a novel algorithm that extracts each subject property's sale comps used by the nonlinear model and demonstrate how we share this data with the goal of improving transparency and trust in government.

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Nicole Jardine is the Chief Data Officer for the Cook County Assessor's Office. She oversees the Data team that develops Cook County's residential model affecting over 1 million homes and leads efforts for strategic data collection, reports, and publications. Her goal is data-driven policy that builds fairness and transparency throughout the property tax system.