The Use of Predictive Analytics in Child Welfare



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What is Predictive Analytics?



The recommendation system influences approximately

80% of the content streamed

Netflix



Collects behavioral data to create a better experience for the user

Using Big Data to Streamline your Streaming

Predictive Analytics & the Social Sciences







Making Decisions Better, Making Lives Better

Predictive Analytics & Child Welfare











The State Child Welfare Agency

The State Child Welfare Research Institute

Child Protective Investigators

Public Relations Specialist

Flexible and adaptive

Organized

Trained in indicators of child abuse

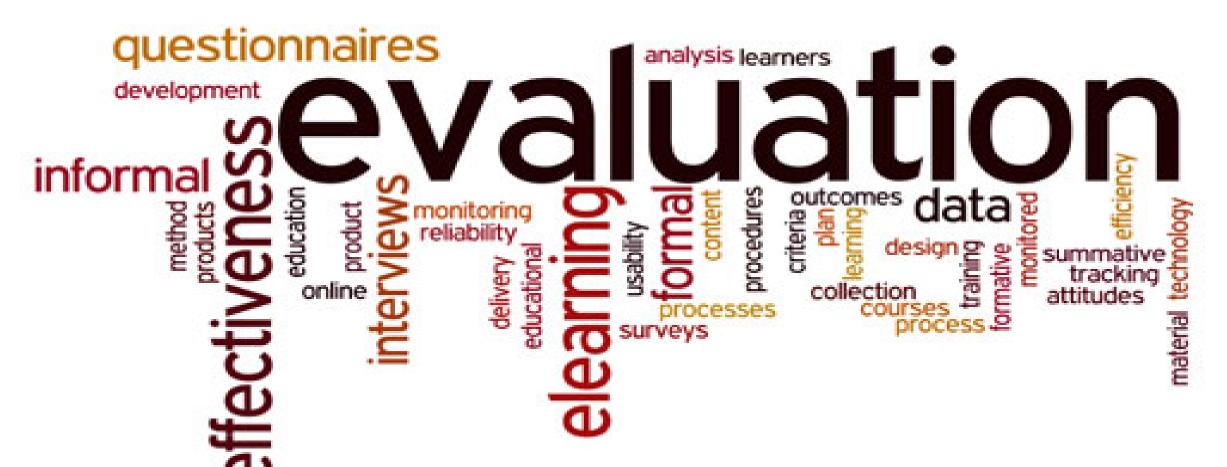


In what ways, if any, does the use of a predictive model, during precommencement, add value to child protective services?

Workload Standards

Chronic Re-abuse by Caregivers Worker
Efficacy and
Confidence







RESULTS

Effective?

Indeterminate

Functional?

Too many technical issues

Useful?

Not as helpful in understanding chronic maltreatment as proposed



RESULTS

Strengths of Predictive Model

Presents the case holistically instead of in pieces

Barriers of Predictive Model

Potentially profiles cases using characteristics like race and income

Predictive Analytics & Child Welfare



Can an algorithm really tell when kids are in danger?



Google & the Beauty Pageant





Next Steps: Predictive Analytics & **Child Welfare**





Next Steps:

Consider the latent and implicit biases that could bias the model and perpetuate biases that harm more children and families