Unlocking Brighter Futures









Evaluating Educational Programs Impact on Texas students

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Problem Statement

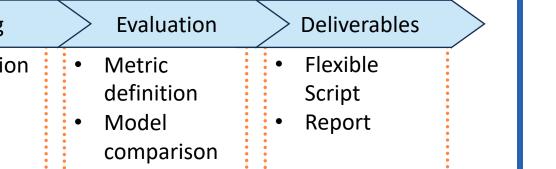
Problem

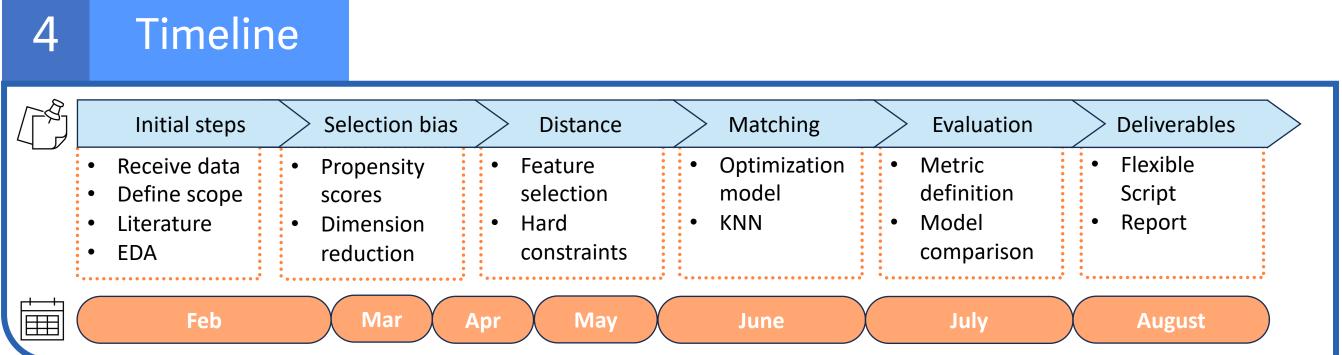
TEA is the state agency in charge of public education in Texas. TEA designs programs to boost student performance and aims to measure its impact. However, Texas is diverse and causal inference is a challenge.

Objective

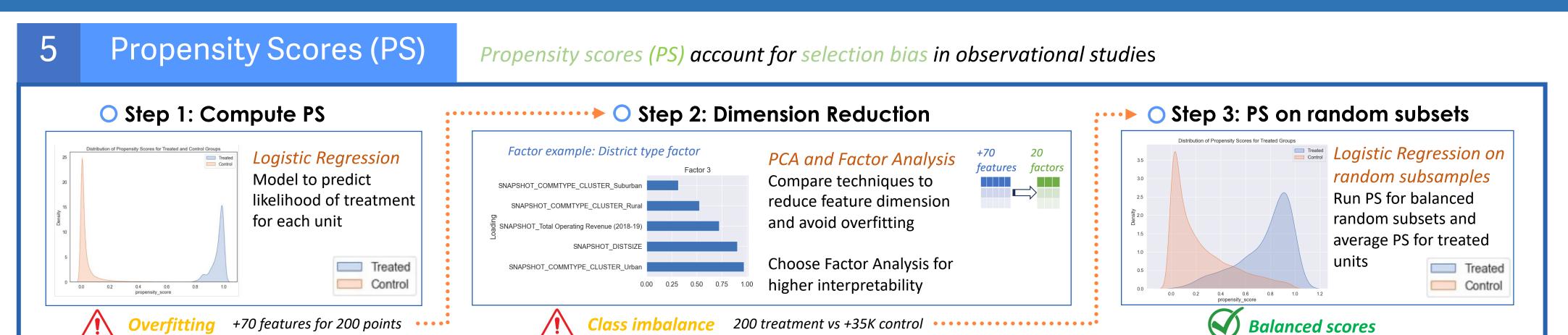
The objective of this project is to measure the causal impact of TEA's initiatives on student success by optimally matching classes that taught a new curriculum to control groups that didn't.

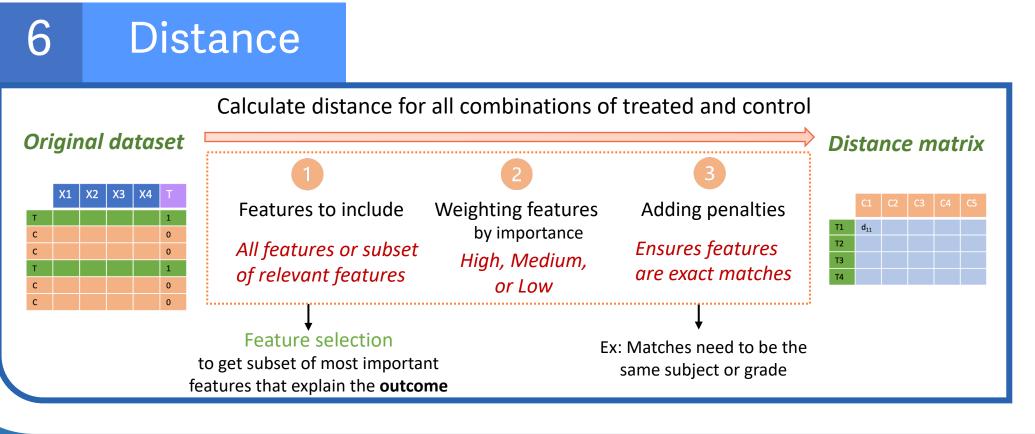
Data & EDA We have 4 data sources Student demographics District data Survey data Teacher demographics We compared treatment to control units Special Education The units overlap, but there is selection bias

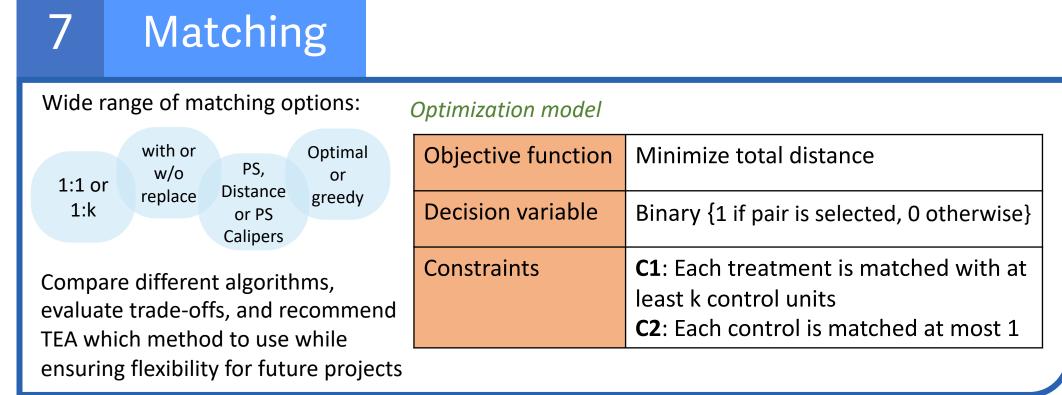




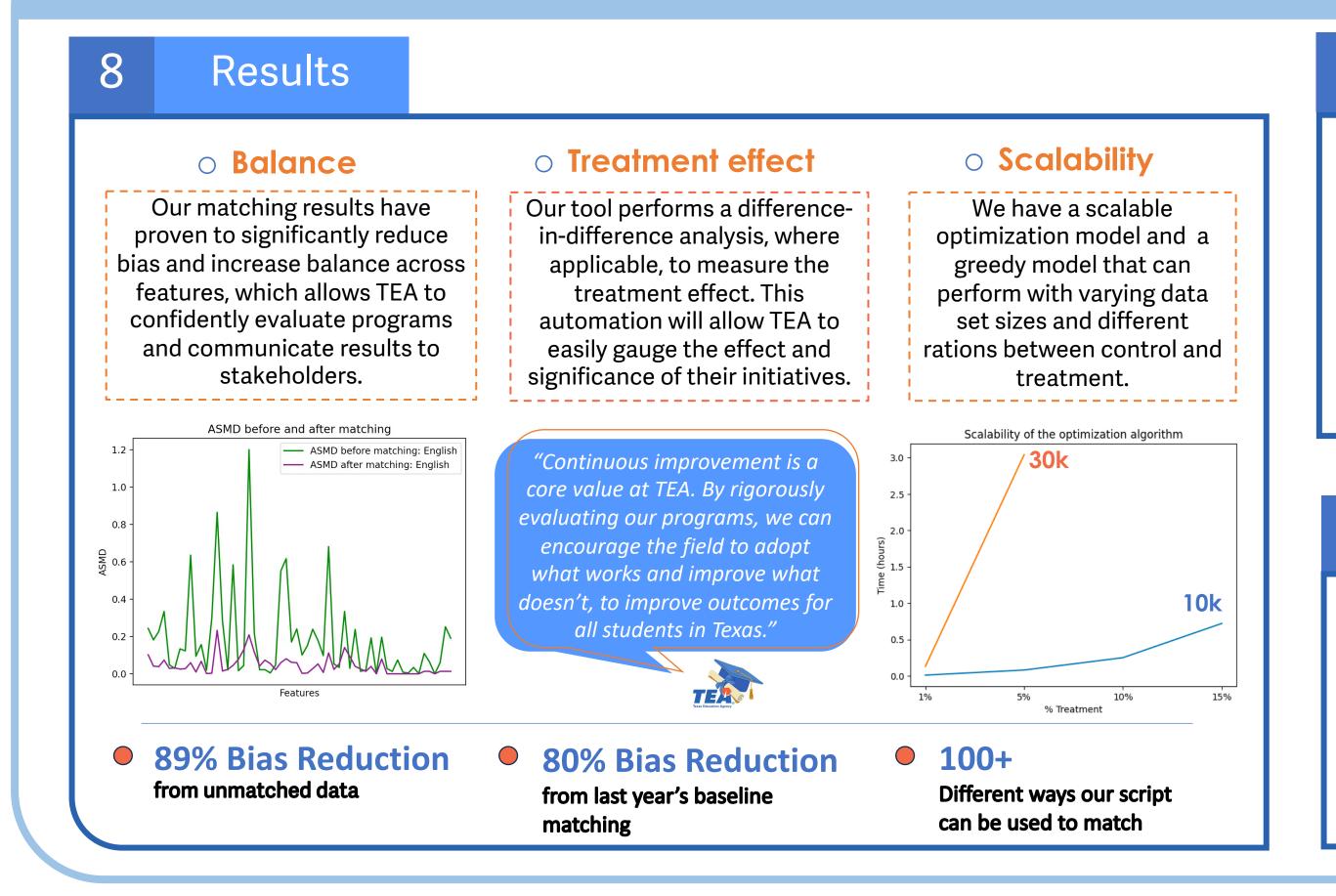
Methodology







Results and Impact



Deliverables

We presented these deliverables for TEA to summarize our project



Flexible Script

Flexible script to perform the matching and evaluation

Documentation



Explanation on code, installation, and optimization basics

Project overview slides targeted to different **TEA audiences**

Next Steps

The next steps for our project are the following ones



Implementation

Implementation on

other use cases



Communication

Choosing a matching method to evaluate 2023 CRIMSI results

Communicate project with stakeholders