



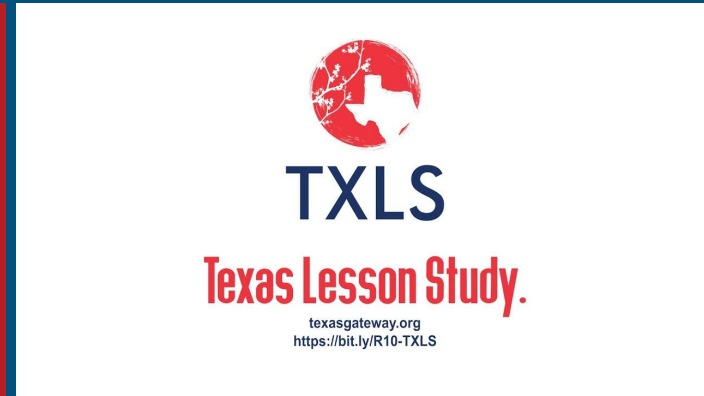
Improving District STAAR Results



Provided for Bay City ISD by Jonathan
Armstrong

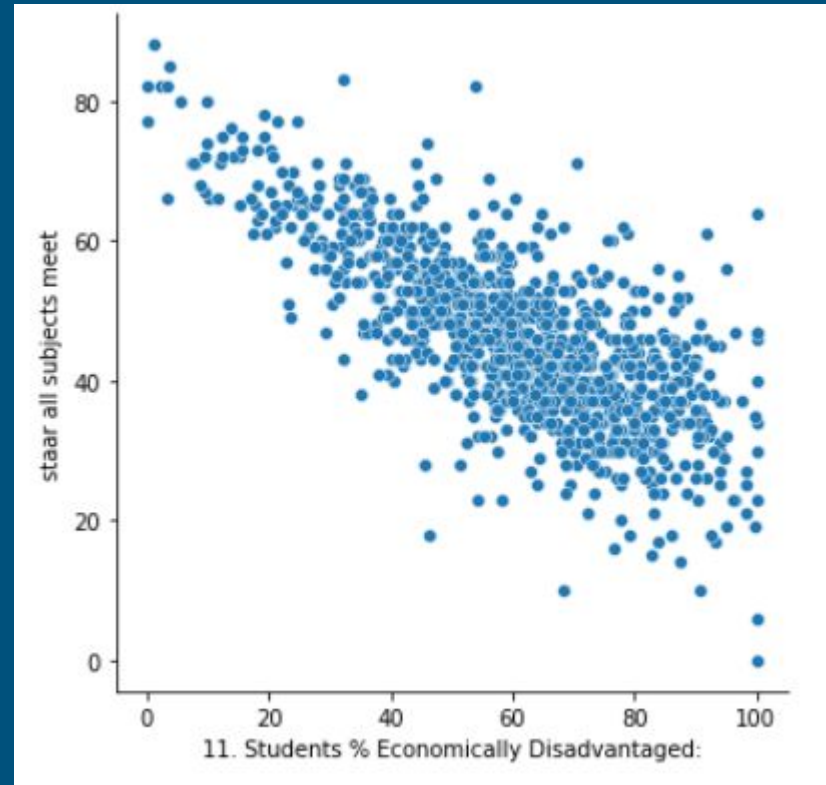


My Goal: Improve student outcomes without burdening districts with changing intervention or development strategies



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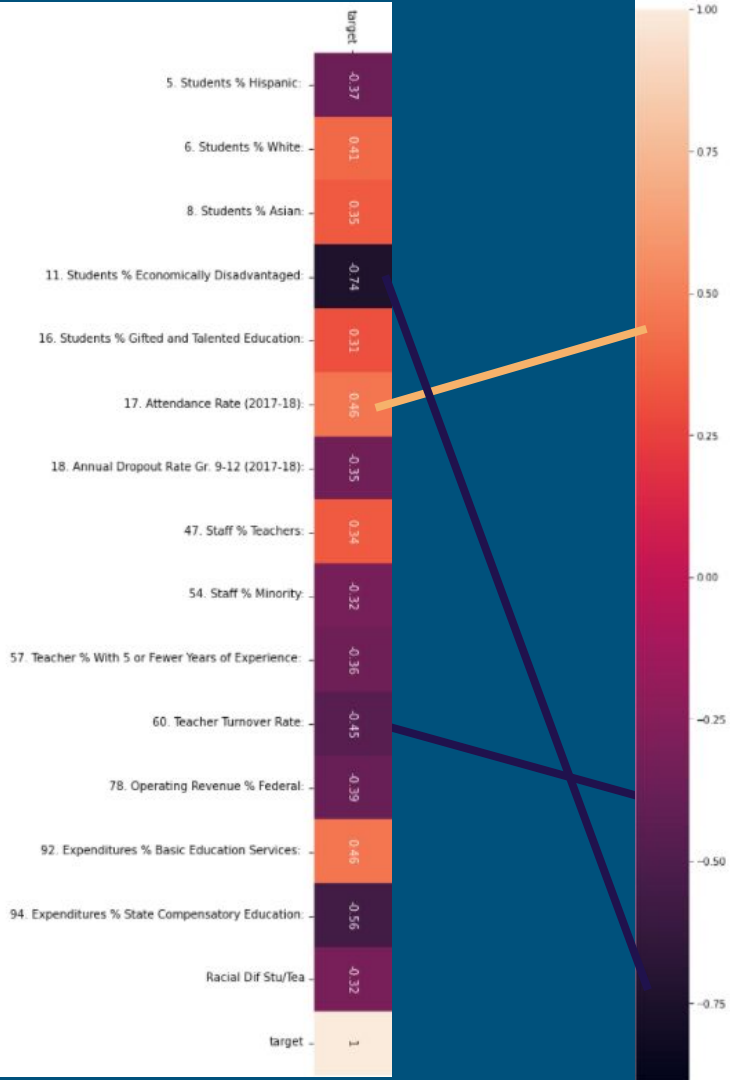
Wealthy communities
all have high academic
achievement, but
economically
challenged
communities have
choice.



The solution is educator retention



Lowering teacher turnover, among other factors, has the potential to raise the number of students meeting the STAAR by 10%



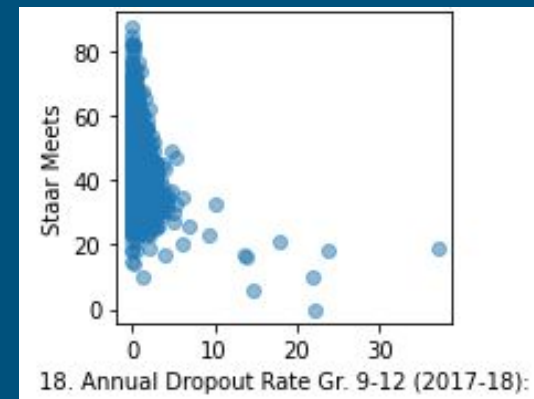
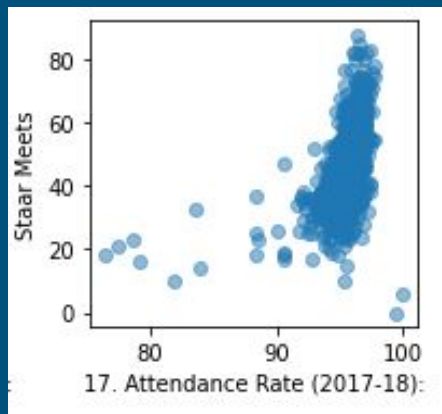
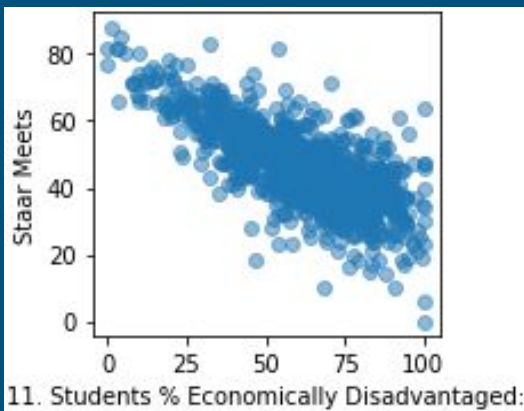
In the data collected from TEA there were a few standout features

Bay City outperformed
predictions based on
2018 demographics



Small Changes, Big Results

	Attendance Rate	Drop-out Rate	Staff % teachers	Teachers with <5 years exp	Teacher turnover rate	Predicted STAAR meets
Optimum Changes	100% (+5%)	0% (-1.5%)	50% (+6.4%)	10% (-21.8%)	5% (-22.9%)	53.6%(+20.6%)
Moderate Changes	97% (+2%)	1% (-0.5%)	46% (+3.4%)	25%(-6.8%)	17%(-10.9%)	43%(+10%)



See for yourself:
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Further work

- Determine important factors for teacher retention
- Use machine learning to predict longevity of potential new-hires

