



Are Some Teachers Just "**Meaner**" than Others?

using data analysis to conquer our inherent bias

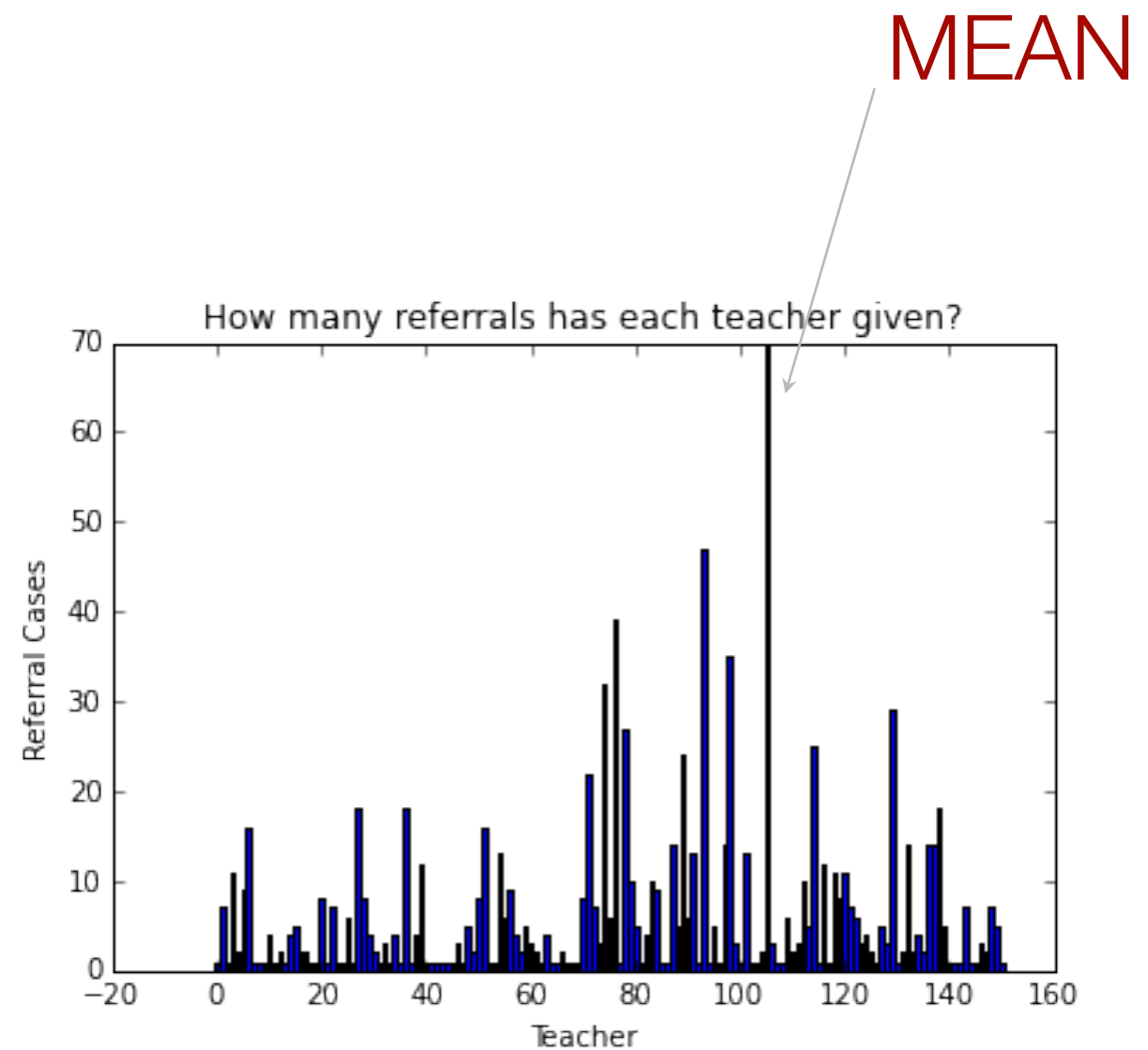
By
Liz Izhikevich, Joanne Yeh, Siyang Wang

what makes us think teachers are mean?



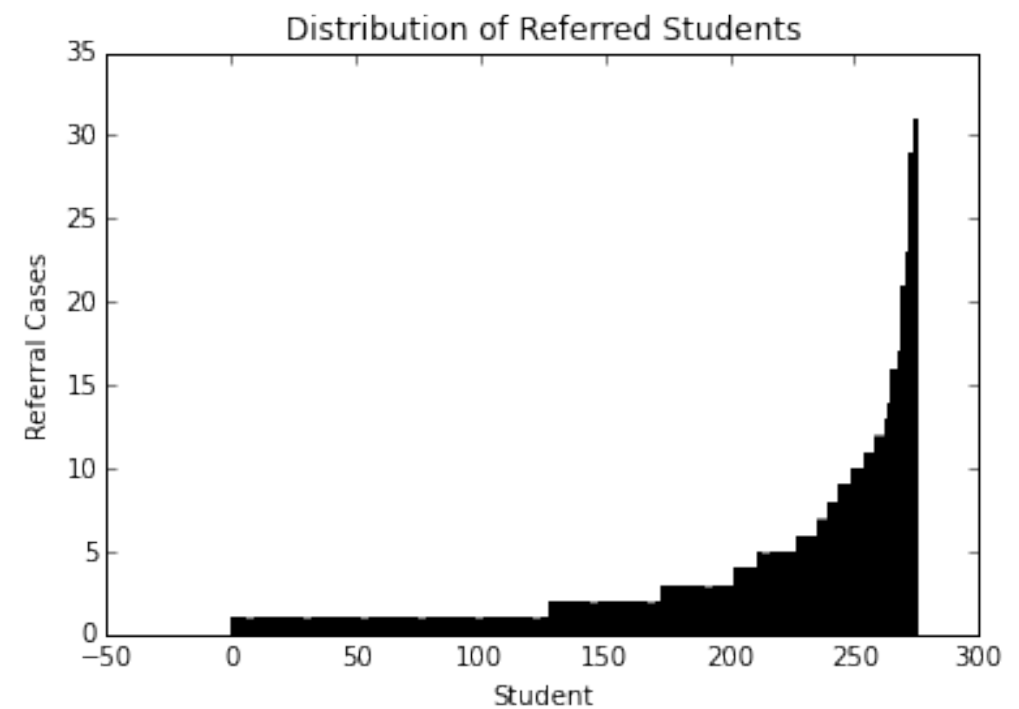
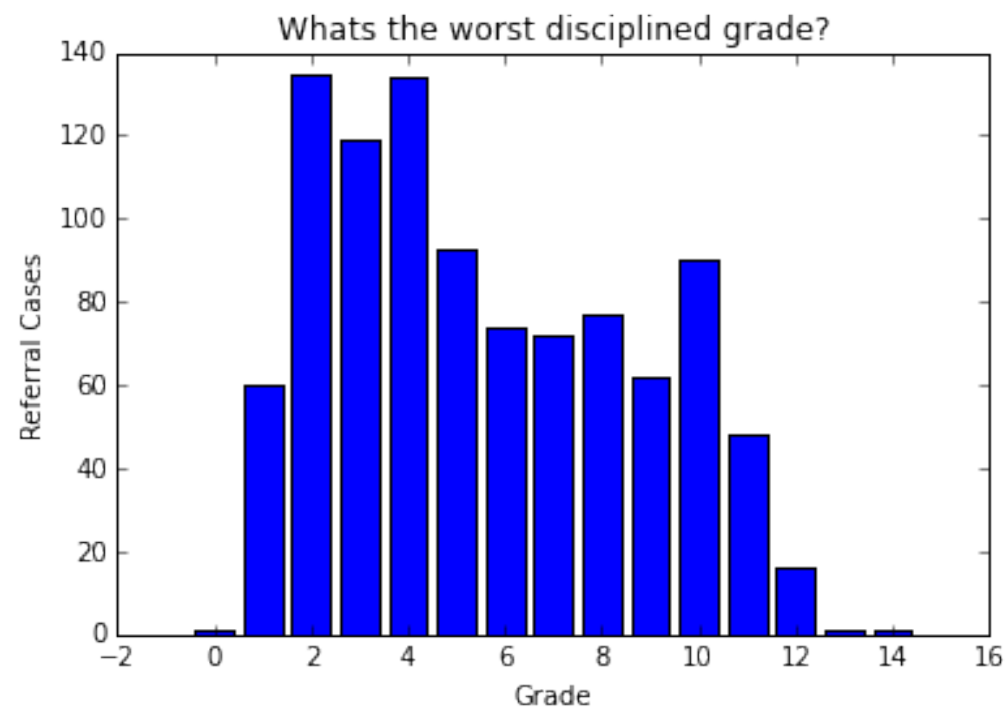
monarch school

education. opportunity. transformation.

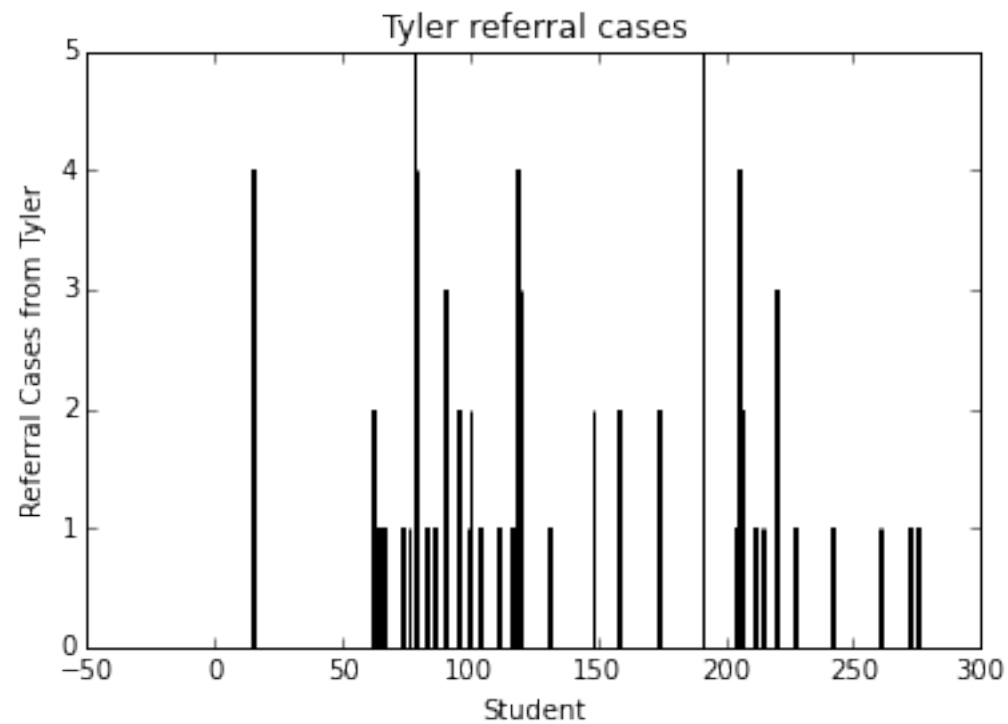


how can we use data science to prove?

look at relative external data

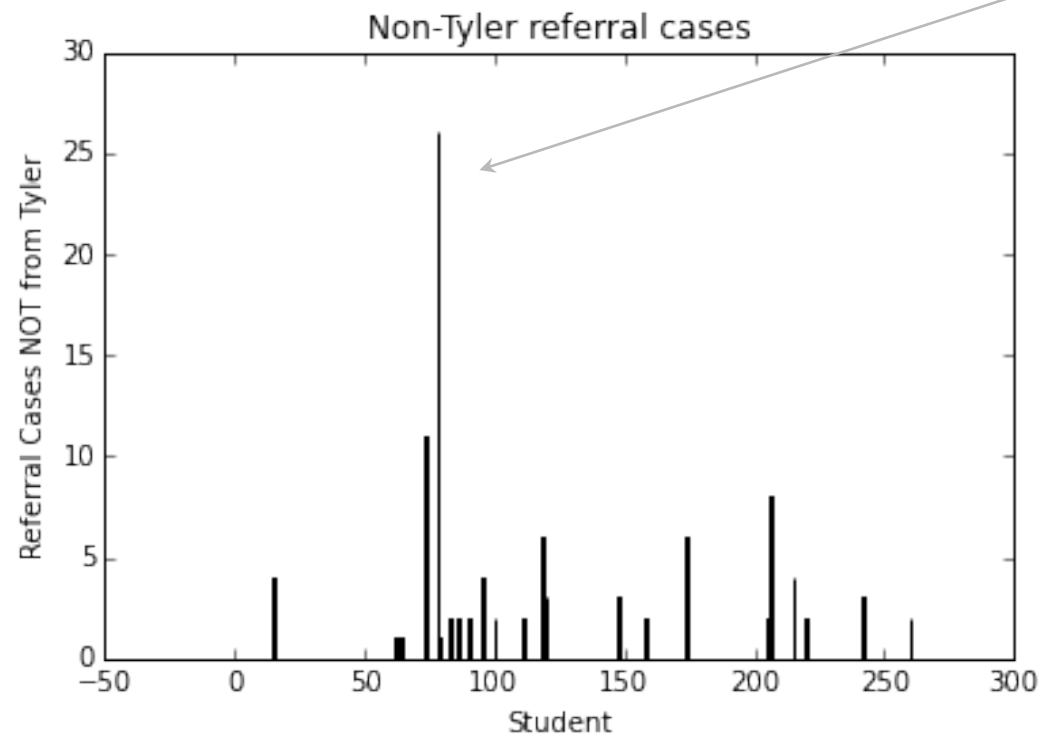


look at relative internal data



Tyler: top referral giver

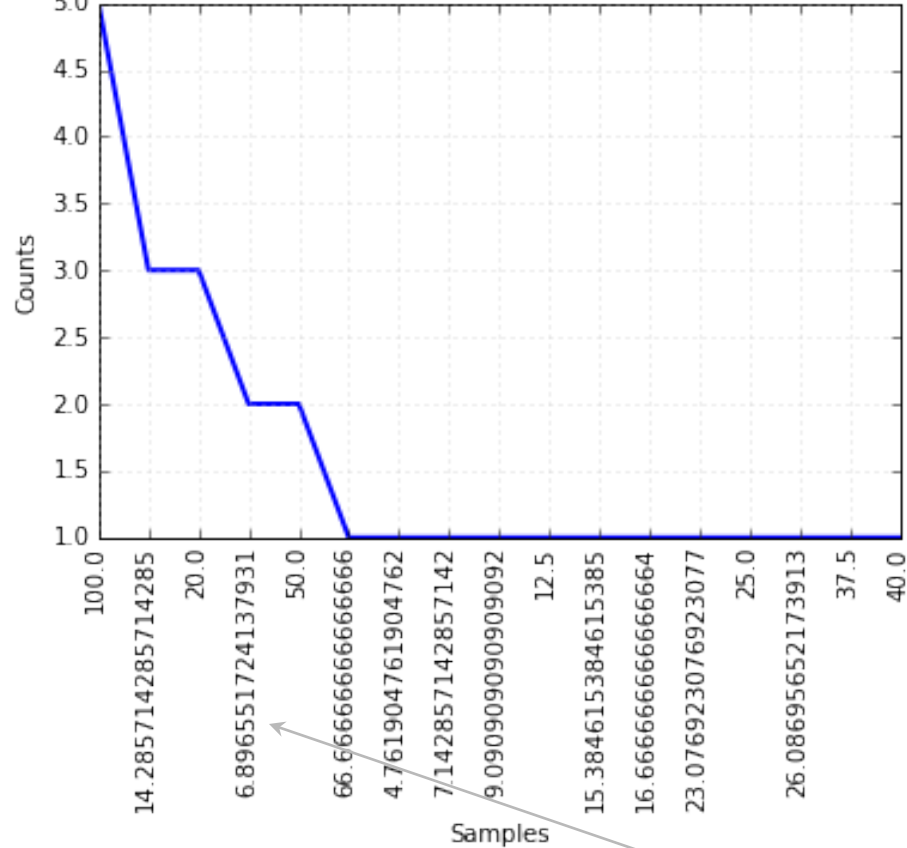
26 referrals NOT from her!



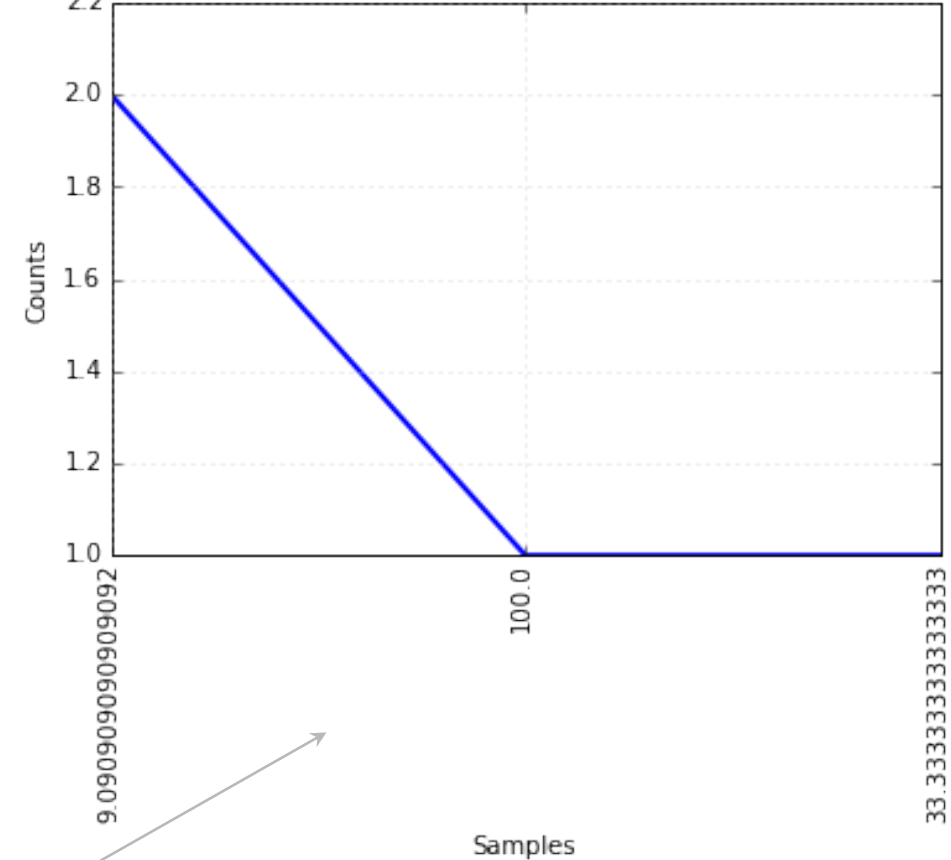
Teacher1: second top referral giver

Teacher2: median referral giver (6)

Which proportion of referrals recieved by a student were given by Ms.Naechia?



Which proportion of referrals recieved by a student were given by Ms.Crystal?

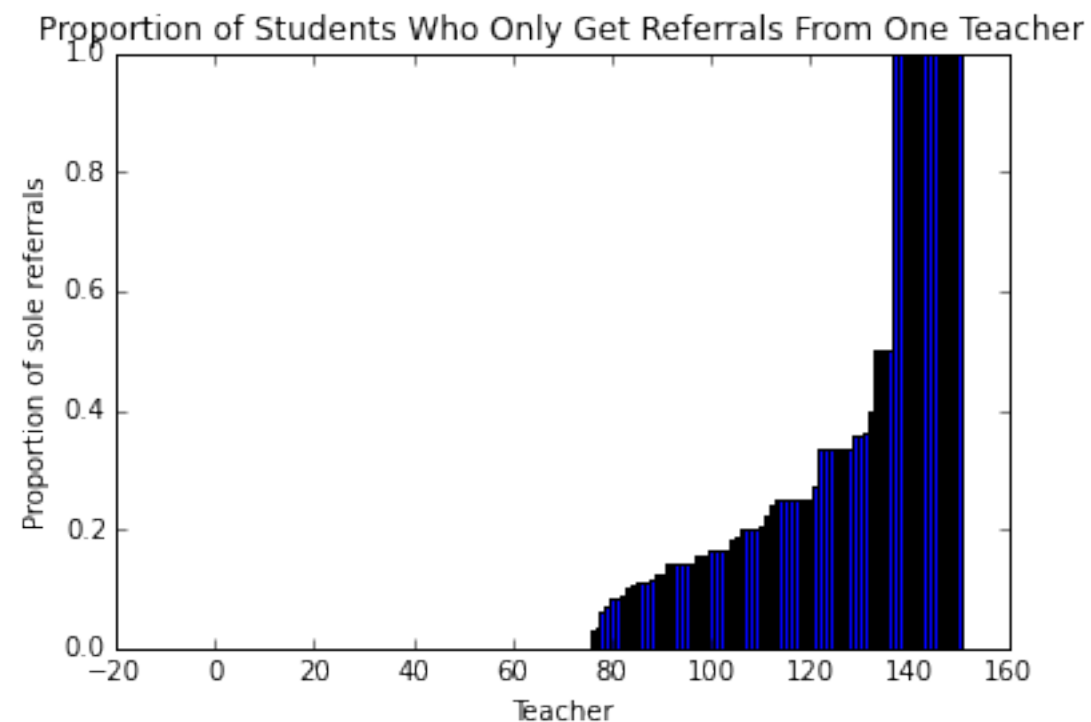


difference?

Lets look at the math:



Sole referral giving to student:
Ms.Crystal: 16.66%
Ms.Naechia: 10.6%
Ms.Tyler: 18.57%



The variance for the proportions is: 0.0852883388144697

what does this all mean?

mean teachers only seem mean?



Teacher bias seems to be very minimal

Referral giving related to:

- a) "Population Density" of Grade?
- b) emotionally unstable students?

Introduce a fun
"behavior" class for
controlling
emotions?



conclusion: things to consider...

only analyzing Monarch

-could be exceptional teachers

tested only one teacher vs all others



we hope we've changed your outlook
on that one teacher
you've been thinking about

