## Regression and Questions for Thoughts

Week 7 Video 4

× REGRESSION PREDICTAL HOME PRICES

× REGRESSION PREDICTAL HOME PRICES



0 5 0 × REGRESSION PREDICTAL HOME PRICES

OUTLIERS

× Decolection

REGRESSION



DEA: PENALIZE LINES
WITH LARGE WEFFICIENTS

× 0 5 0 REGRESSION PREDICTAL HOME PRICES OUTLIERS DEA' PENALIZE LINES WITH LARGE WEFFICIENTS

X REGRESSION PREDICTIVE HOME PRICES

RIDGE REGRESSION

RIDGE REGRESSION

MINIMIZE "LOSS + COEFF SIZE"



## CORE STATS IDEA

IN CERTAIN "TOY" SCENANIOS YOU CAN PROVE

- · MINIMIZE "LOSS + COEFFICIENT SIZE"

  OUTPERFORMS
- · MINIMIZE "LOSS"

THE BIG QUESTIONS

· DO WE HAVE FAST ALGORITHMS

FOR FWDIND "SIMPLE" CLASSIFIERS

WITH SMALL LOSS?

TRAINING

" HOW CAN WE CERTIFY THE PERFORMANCE OF A MODEL ON UNSEEN DATA?