Rif small, W(i) con blow up in OLS

Ridge: (VETEVT + XI) VITY

 $V(\xi = + \lambda I) V V \xi = 0 = (\xi + \lambda I) \xi$   $= \sum_{i=1}^{n} \widehat{y}(i) = \sum_{i=1}^{n} \widehat{y}(i) =$ 

Implicit regularization

Lyoptimizer does regularization for you stopping for out (SUID cours)

GD moves

Slowly on ill constituent (onsitioned points, so running points, so running limited iters limits prouts

## Trade-As between sources of error

(1-10(x)) 1

3 error sources: irreducible, Approximation, estimation

Features in cleep learning

X-7

His loss

features

features

general linear

general linear