

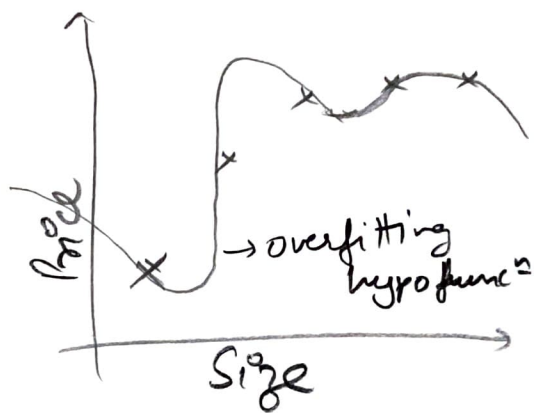
Addressing Overfitting:

$x_1 = \text{size}$

$x_2 = \# \text{ bedrooms}$

$x_3 = \# \text{ floors}$

$x_{100} = \text{Area}$



too many features
with less training data
with make hypo func. overfitting

① Reducing # features.

- ↳ Manually select which features to keep
- ↳ Model selection algorithm

② Regularizations

- ↳ keep all the features, but reduce magnitude/values of parameters θ_j
- ↳ Works well when we have a lot of features, each of which contributes a bit to predicting y