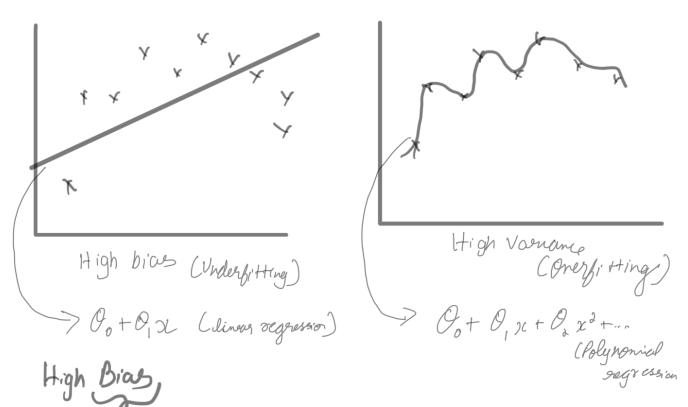
Stanford CS229 Lecture - 7

Bios: Introduct by oppositionating a complex problem

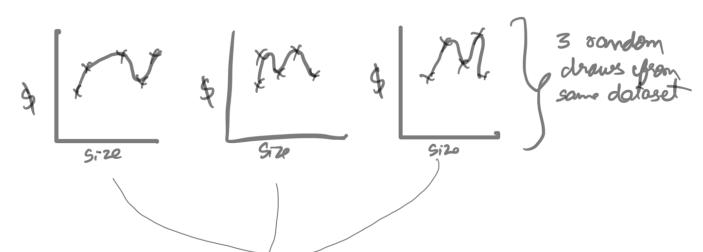
Sheplets how for is one model from time values

Vorince: Replets how predictions vary from dataset.



a straight line. i.e Bias

High Variance



High variance from all the 3 samples as anoverage Conerbitting

Regularization :-

Generalizing a model to prevent overfitting

Ex:-

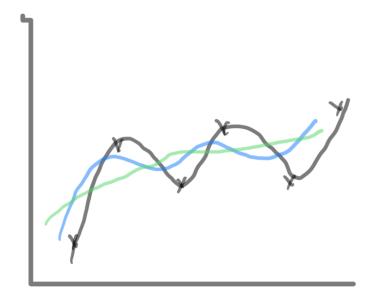
 $\frac{1}{\theta} = \frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left[\frac{1}{2} \left(\frac{1}{2} \right) \right] \right]^{2} + \frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \right] \right] + \frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \right] \right] \right]^{2}$

Dinear Regression
Optimization Objective

Regularization

Term

Coc:-



7=0 7=1 7=1

as you can see as we increase To Coregularisation), we decrease overlitting