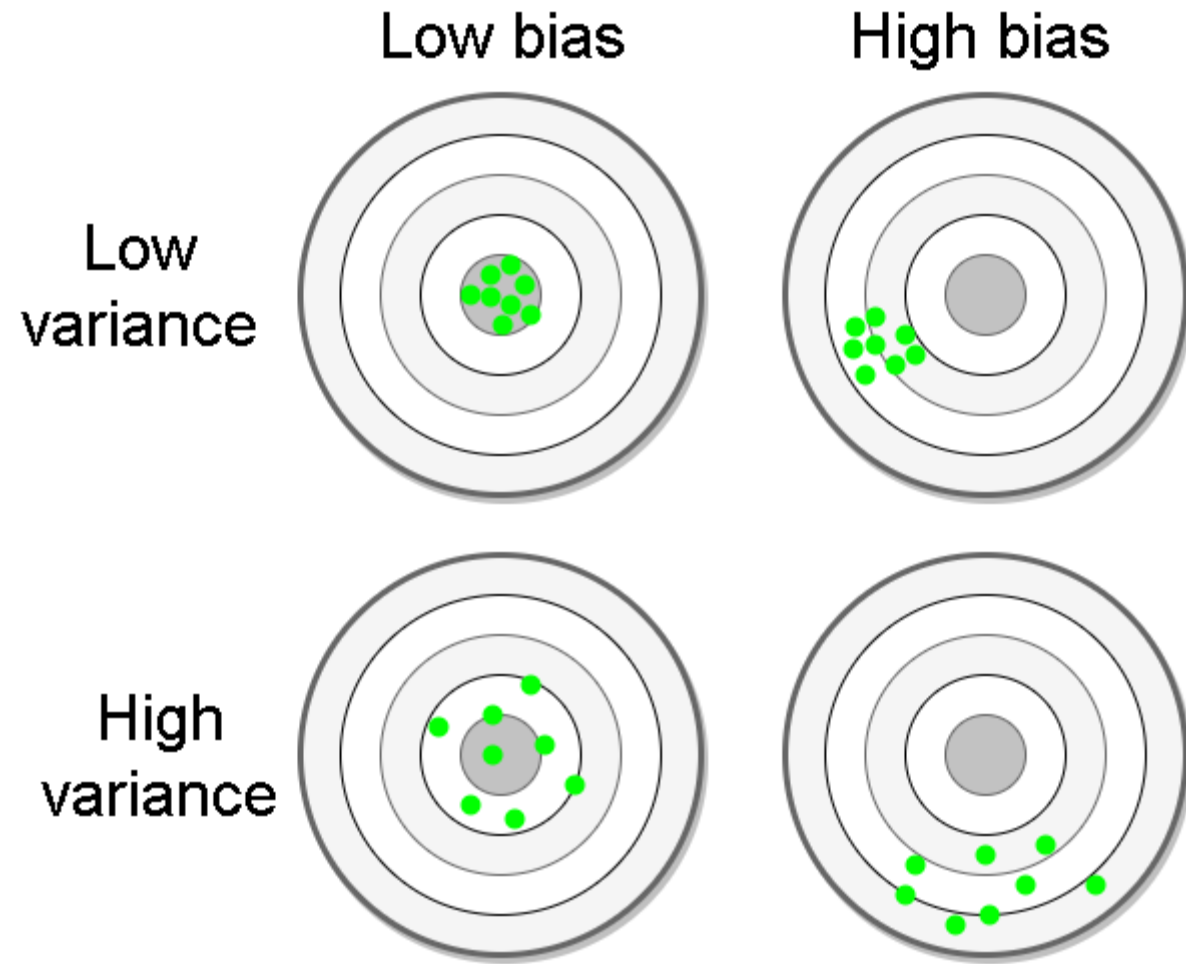


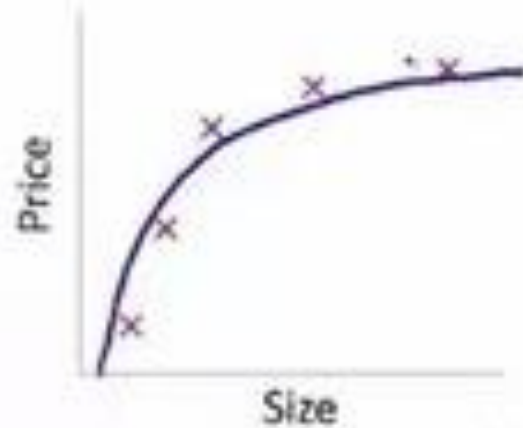
Bias Variance Trade-Off





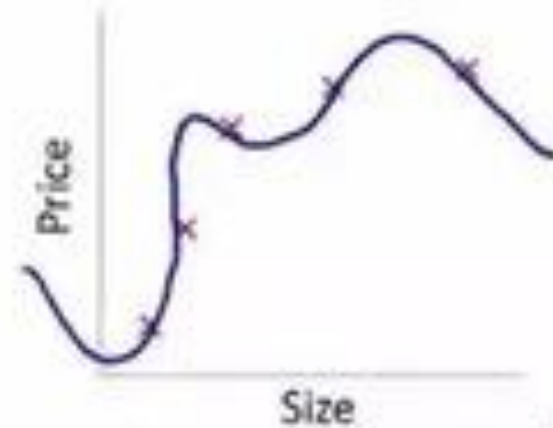
$$\theta_0 + \theta_1 x$$

High bias
(underfit)



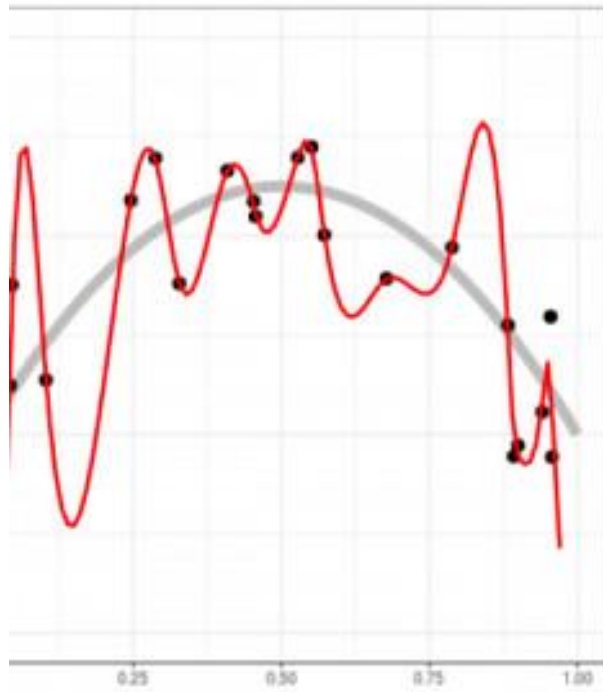
$$\theta_0 + \theta_1 x + \theta_2 x^2$$

"Just right"

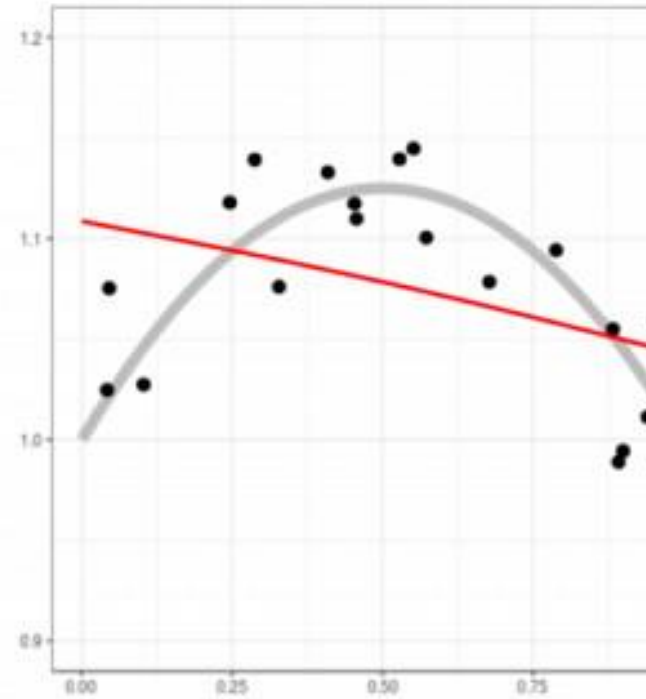


$$\theta_0 + \theta_1 x + \theta_2 x^2 + \theta_3 x^3 + \theta_4 x^4$$

High variance
(overfit)



an overfitting model



an underfitting model

