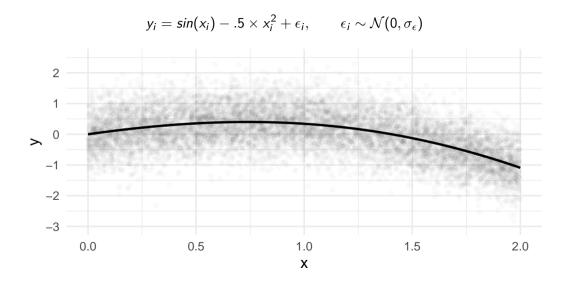
Bias-Variance Tradeoff

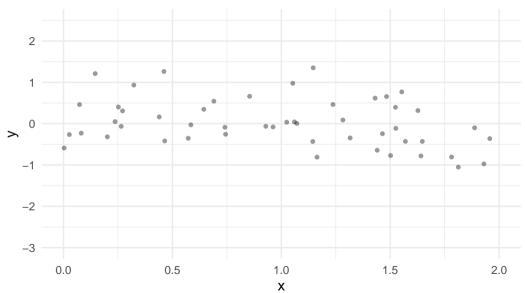
Ari Anisfeld

2025-01-17

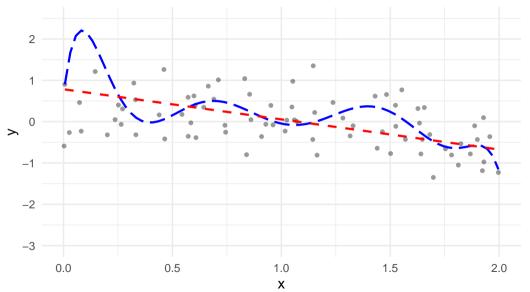
Consider a data generating process (P)



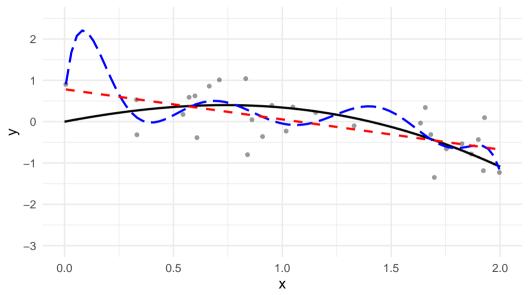
We take a random sample from ${\mathcal P}$

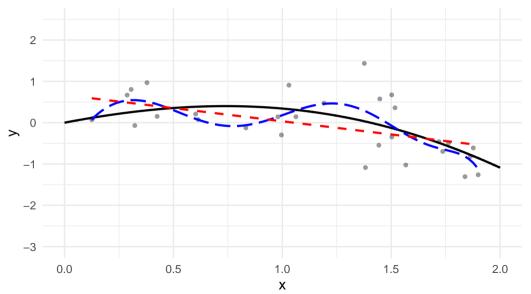


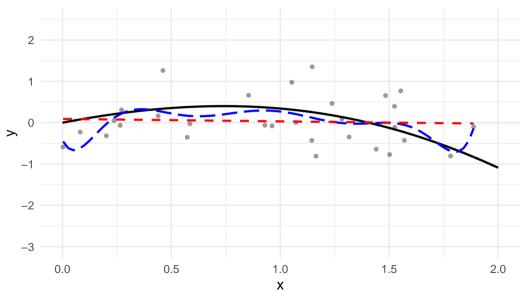
Fit two models: linear and an 8th degree polynomial

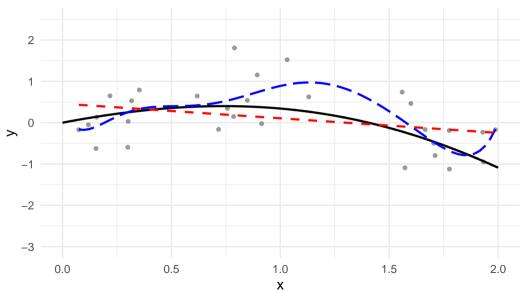


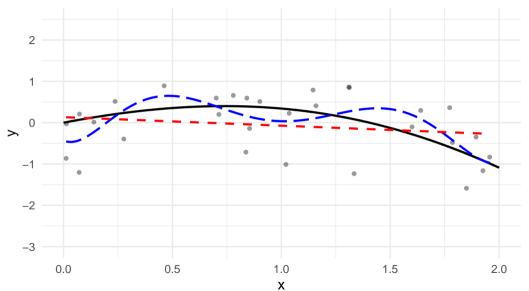
Fit two models: linear and an 8th degree polynomial

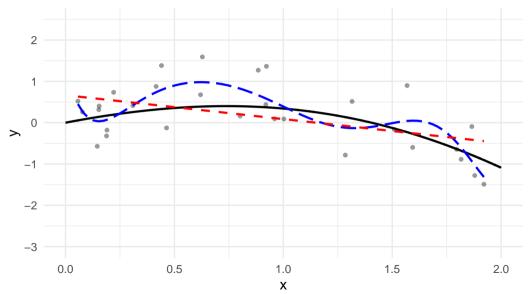


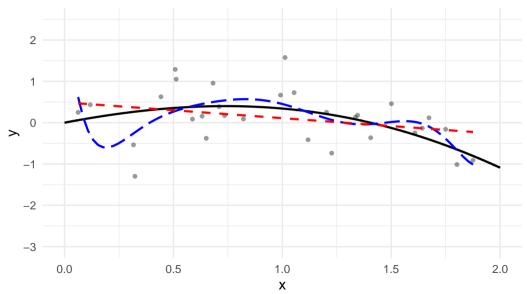












If we did this many times and averaged the functions

