Data Mining and Machine Learning

Lab 01

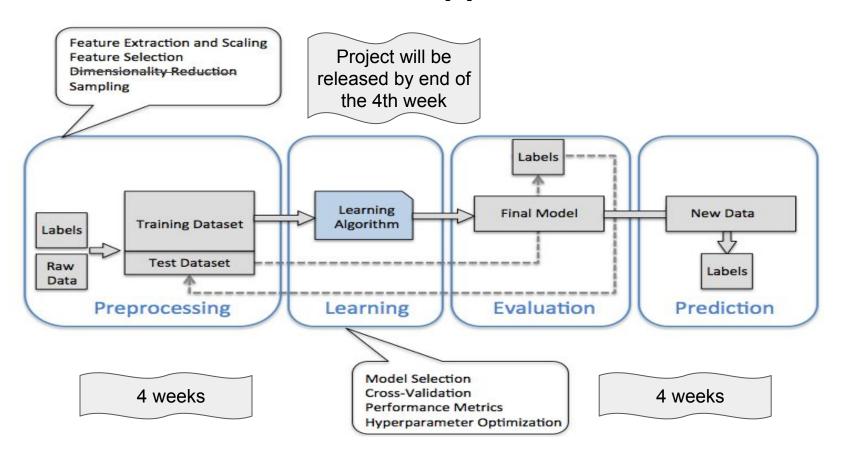
Machine Learning







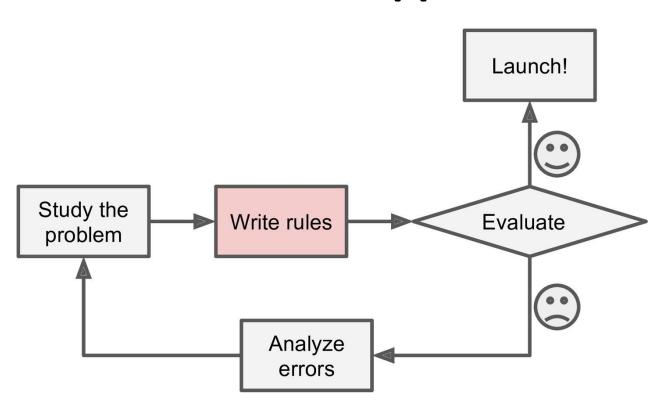
What are we supposed to do?



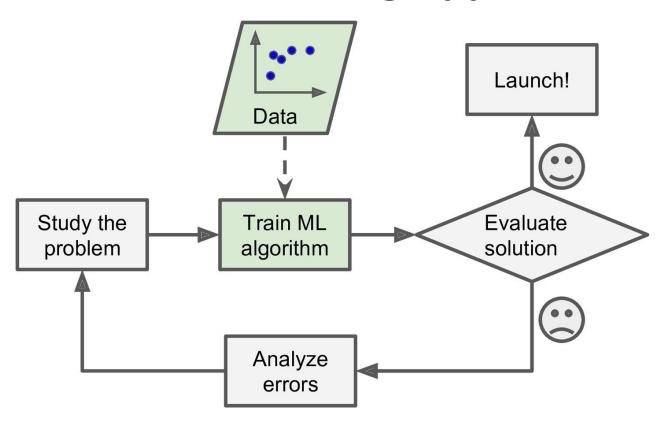
Data Mining and Machine Learning

Lab 02

Traditional Approach



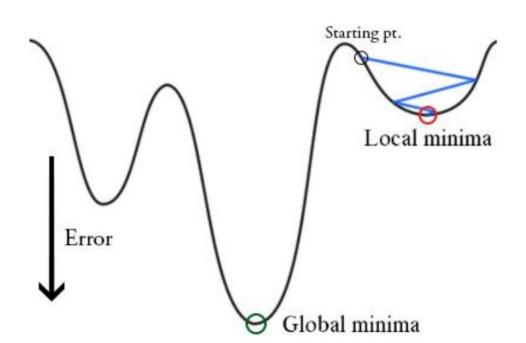
Machine Learning Approach







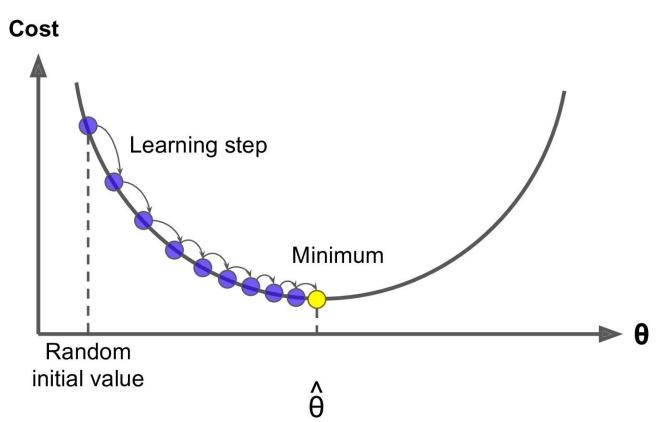
Source: http://cs231n.stanford.edu/slides/2016/winter1516_lecture3.pdf

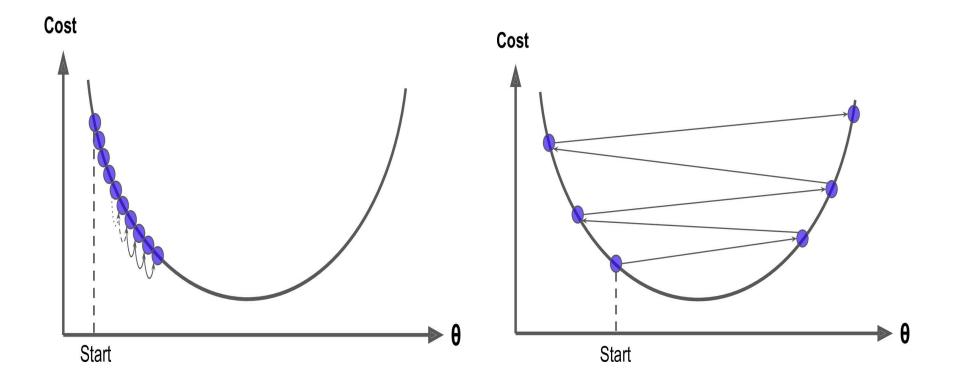


Data Mining and Machine Learning

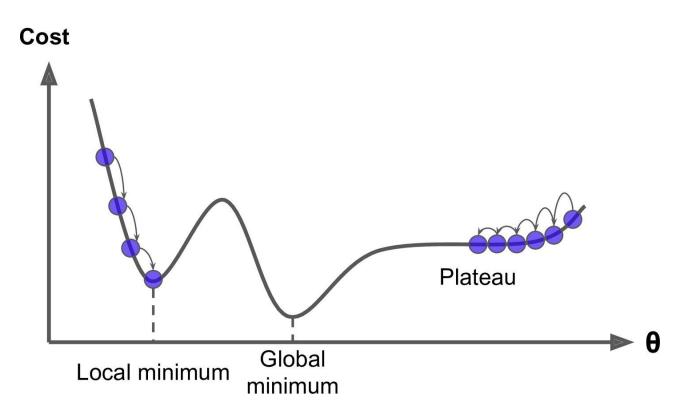
Lab 04

Gradient Descent

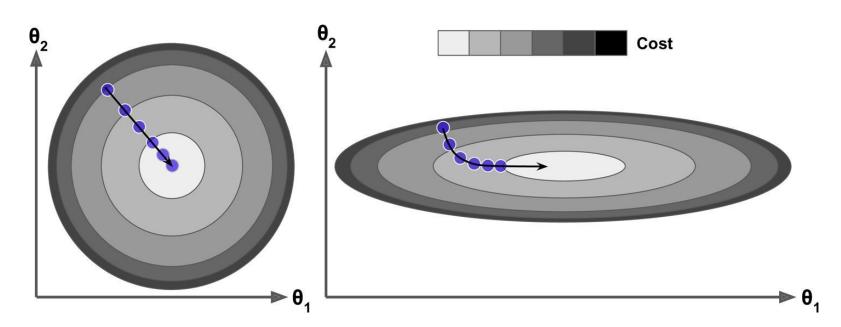




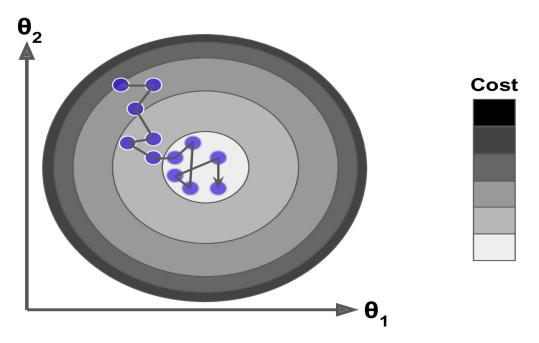
Gradient Descent Pitfalls



Gradient Descent with and Without Feature Scaling



Stochastic Gradient Descent



from sklearn.linear_model import SGDRegressor
Sgd_reg = SGDRegressor(n_iter=50, penalty=None, eta0=0.1)