+) learning schedule - > Vary learning rate with epochs -> + learning rate

t0,t1 = 5,50

def learning_rate(t):

return t0/(t + t1)

for j in range(X.shape[0]):

lr = learning_rate(i * X.shape[0] + j)

for i in range(epochs):

as epochs increases

Dampen the "rashmo

decreas ~

fine-tuning.

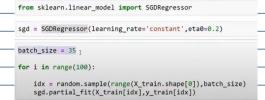
function

so that first iterations cause

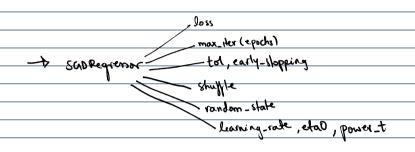
large changes in the parameters, while the later ones only do

-> Sklearn. linear-moll -> SAD Regressor

-> Explore Scrokegressor's partial-fit method. -> out of one learning







-s speed / stability X

class sklearn.linear_model.SGDRegressor(loss='squared_error', *, penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=1000, tol=0.001, shuffle=True, verbose=0, epsilon=0.1, random_state=None, learning_rate='invscaling', eta0=0.01, power_t=0.25, early_stopping=False, validation_fraction=0.1, n_iter_no_change=5, warm_start=False, average=False) [source]

Linear model fitted by minimizing a regularized empirical loss with SGD.

SGD stands for Stochastic Gradient Descent: the gradient of the loss is estimated each sample at a time and the model is updated along the way with a decreasing strength schedule (aka learning rate).

The regularizer is a penalty added to the loss function that shrinks model parameters towards the zero vector using either the squared euclidean norm L2 or the absolute norm L1 or a combination of both (Elastic Net). If the parameter update crosses the 0.0 value because of the regularizer, the update is truncated to 0.0 to allow for learning sparse models and achieve online feature selection.

This implementation works with data represented as dense numpy arrays of floating point values for the features.