3 Gradient Descent

お食下障: VL(的)= [3L(的)/30]

Tips: 1. Learning race
$$\theta^{i} = \theta^{i-1} - \eta \nabla L(\theta^{i-1})$$

Loss large mall Q sty distrib

Visualize Loss:

挺巧: 鱼动静度 adglad

Wtil = wi-ntgt (adgrad - st: yout man square a way编数 始值

example:

$$9^{\circ}$$
 $6^{\circ} = \sqrt{9^{\circ}}$ $3w^{\dagger}$

$$W' \leftarrow W' - \frac{\eta'}{6!} g'$$

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$$G' = \int_{S} [g^{0}]^{2} + (g^{0})^{2}$$

$$\eta^{\frac{1}{2}} = \frac{n}{\int t+1}$$
 decay

$$W^{t+1} \leftarrow W^t - \frac{\eta}{\int_{z=0}^{z} g_{j}^{2}} g^{t} - \frac{\eta}{\int_{z=0}^{z} g_{j}^{2}} g^{t} \int_{z=0}^{z} \frac{decay}{decay}$$
best step:
$$\int_{z=0}^{t} \frac{f_{i}(x)t}{g_{i}^{2}} decay} \int_{z=0}^{t} \frac{decay}{decay} \int_{z=0}^{t} \frac{decay}{dccay} \int_{z=0}^{t} \frac{decay}{dcca$$

2. Stochastic avadlen Pescent Bathlite

pick an example xn

$$L^{n} = (G^{n} - (b + \sum w_{i} k_{i}^{n}))^{2} \quad \theta^{i} = \theta^{i-1} - \eta \nabla L^{n}(\theta^{i-1})$$

3. Feature Scaling #421-3/4729

将数据转段到积风程度

$$\chi'_{i} = \frac{\chi'_{i} - m_{i}}{\zeta_{i}}$$

$$\frac{1}{x_i} = \frac{x_i - min}{max - min}$$

2. Stuck saddle point 3 dL = 0

3. Very slow at plateau 31 2D