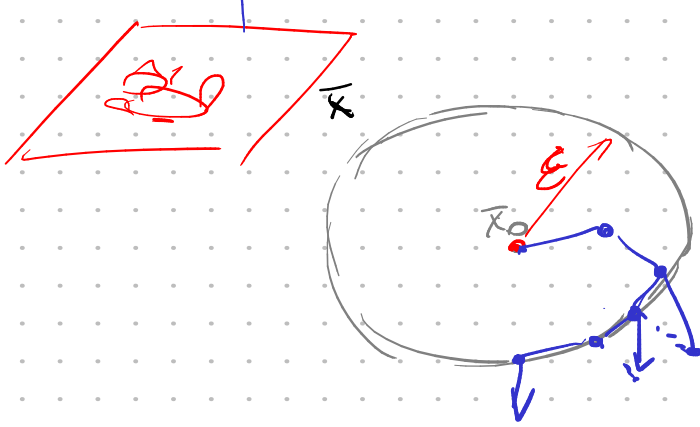


$$L(x, y, w) \rightarrow \min$$

$$L'(x, y, w) \rightarrow \min$$

$$\text{st. } \|x - x_0\| \leq \epsilon$$

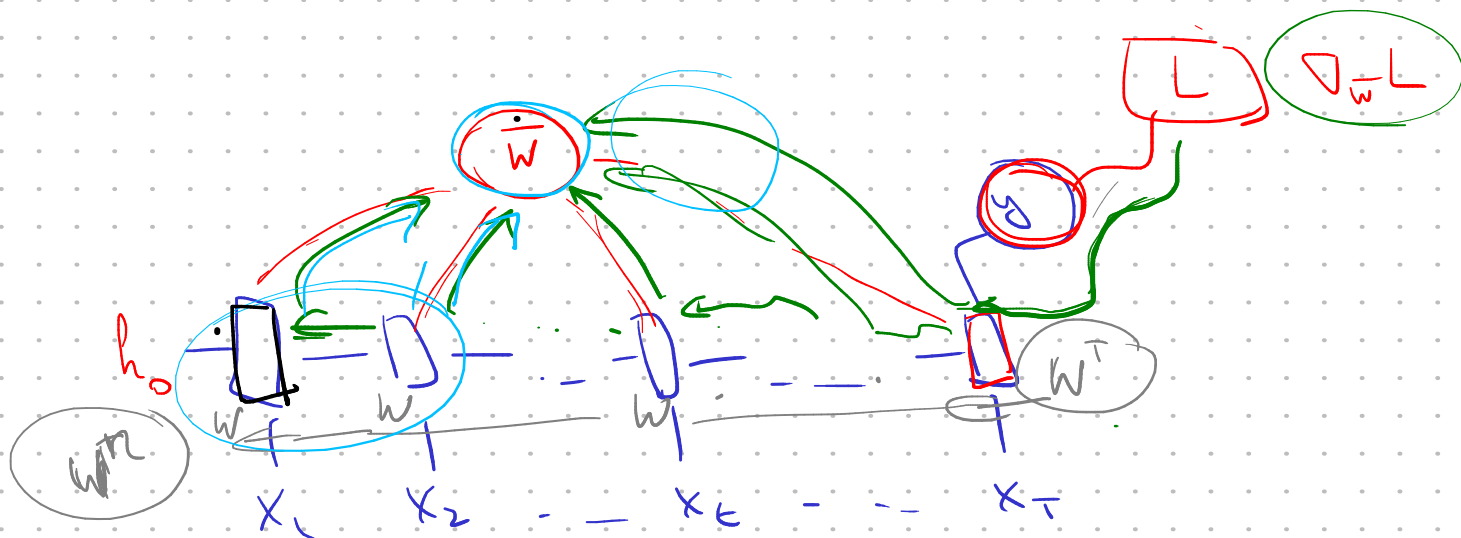


White-box attack
 grey-box
 black-box

B-per per per Pg ba B-Date pate B8 B-Loc 1000

A. C. Пыункн морс B 1837 г. B Cаker-Пepcпpе

[person] [Date] [Loc]



- exploding gradients
- vanishing gradients

LSTM long short-term memory

