Survey of Problems and Architectures

features

$$\hat{y}(x) = \hat{y}(x, \theta_\circ) + \left.\frac{d\hat{y}}{d\vec{\theta}}\right|_{\theta_\circ} \cdot \Delta\vec{\theta}$$

general linear model
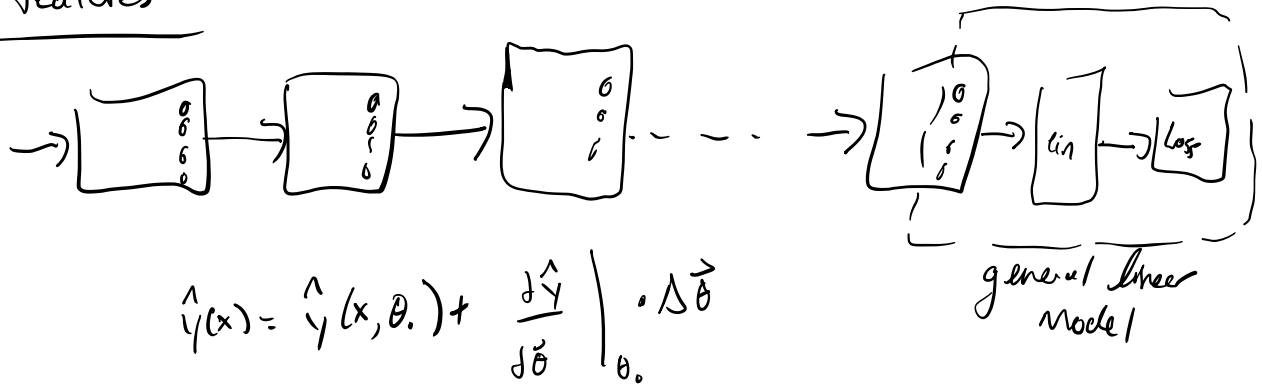
architectures

MLP — fully connected

CNN - conv.

RNN - recurrent

graph NN

transformers