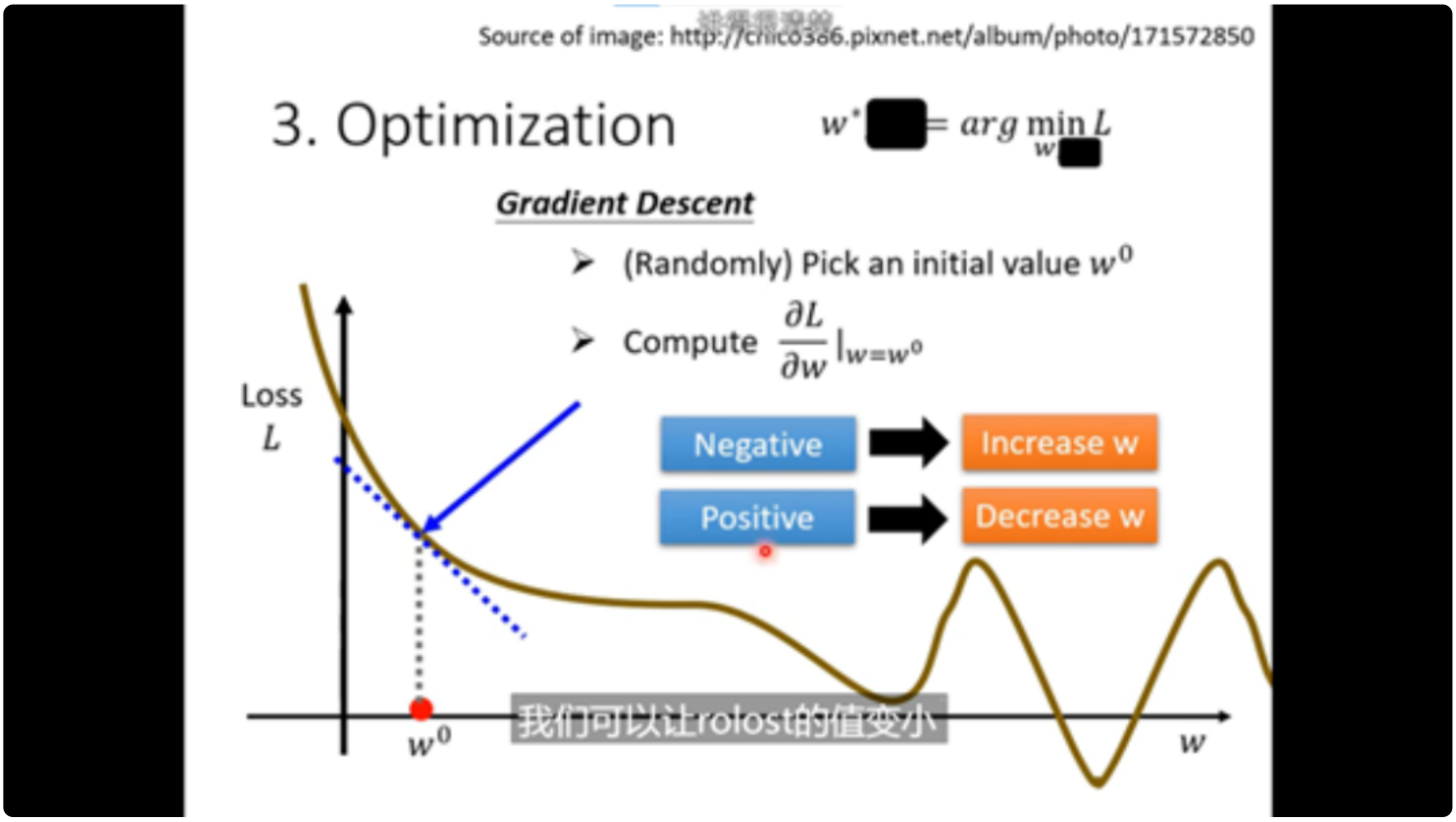
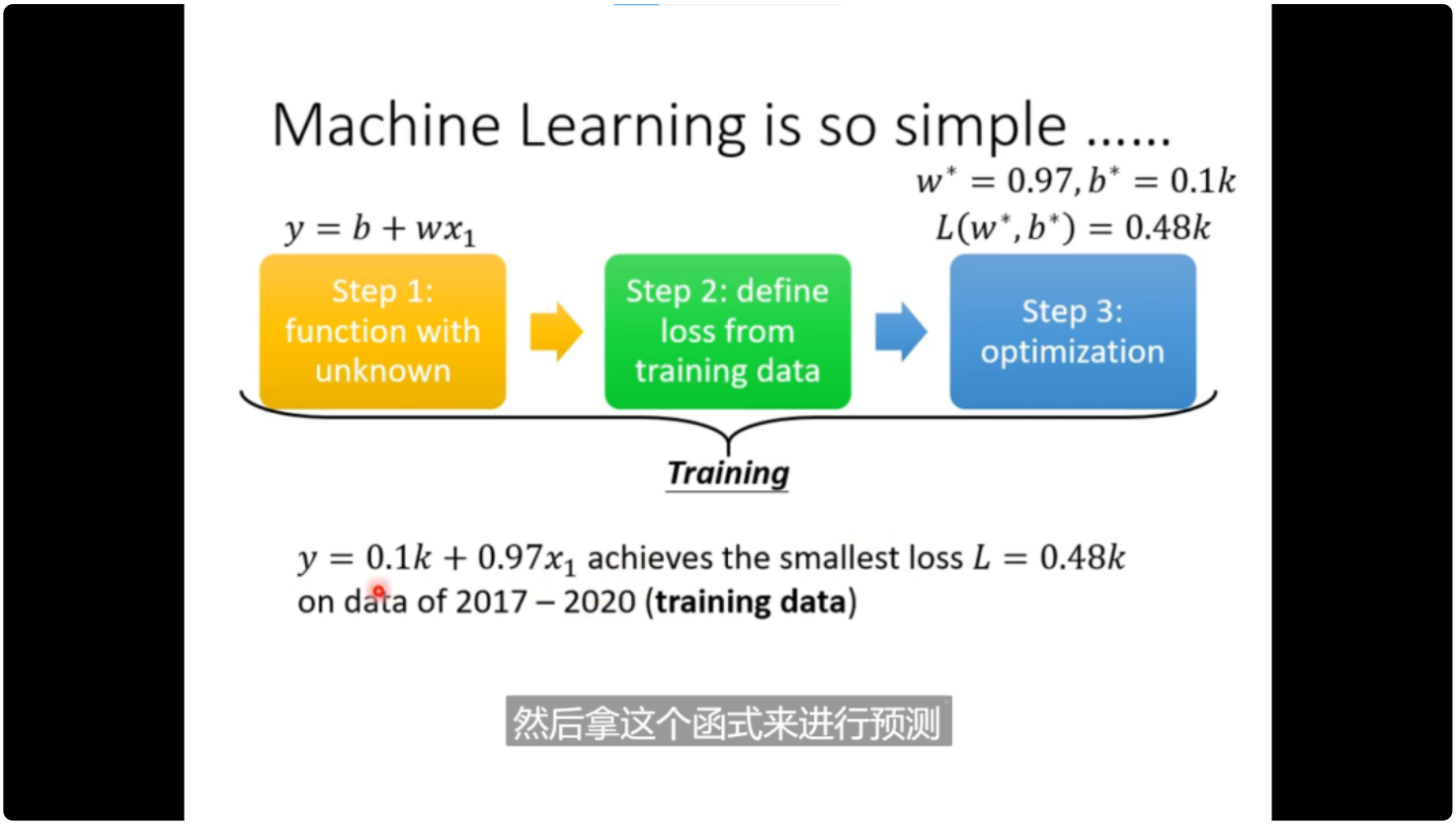
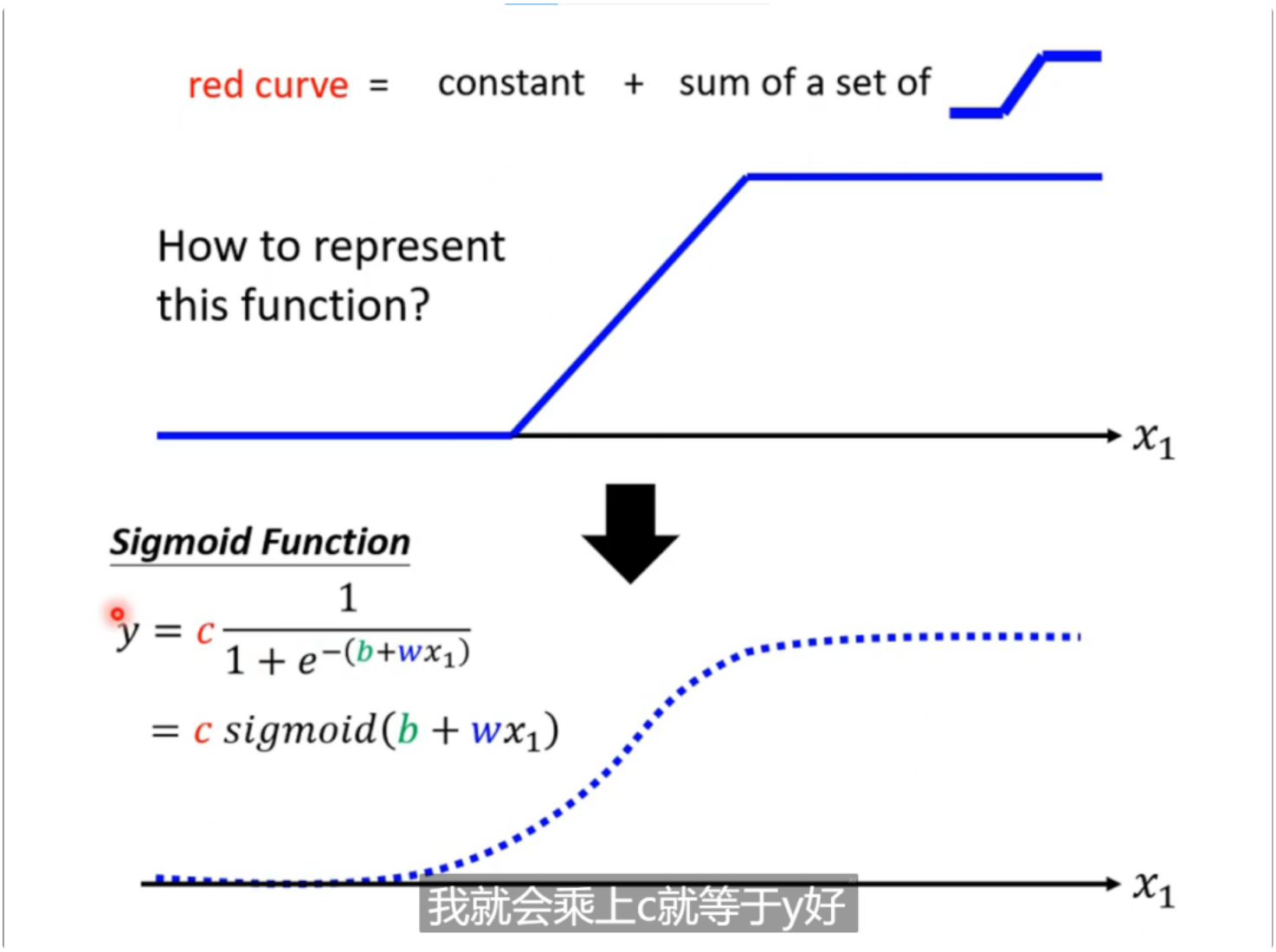
李宏毅《机器学习/深度学习》2021课程

1. 预测本频道观看人数

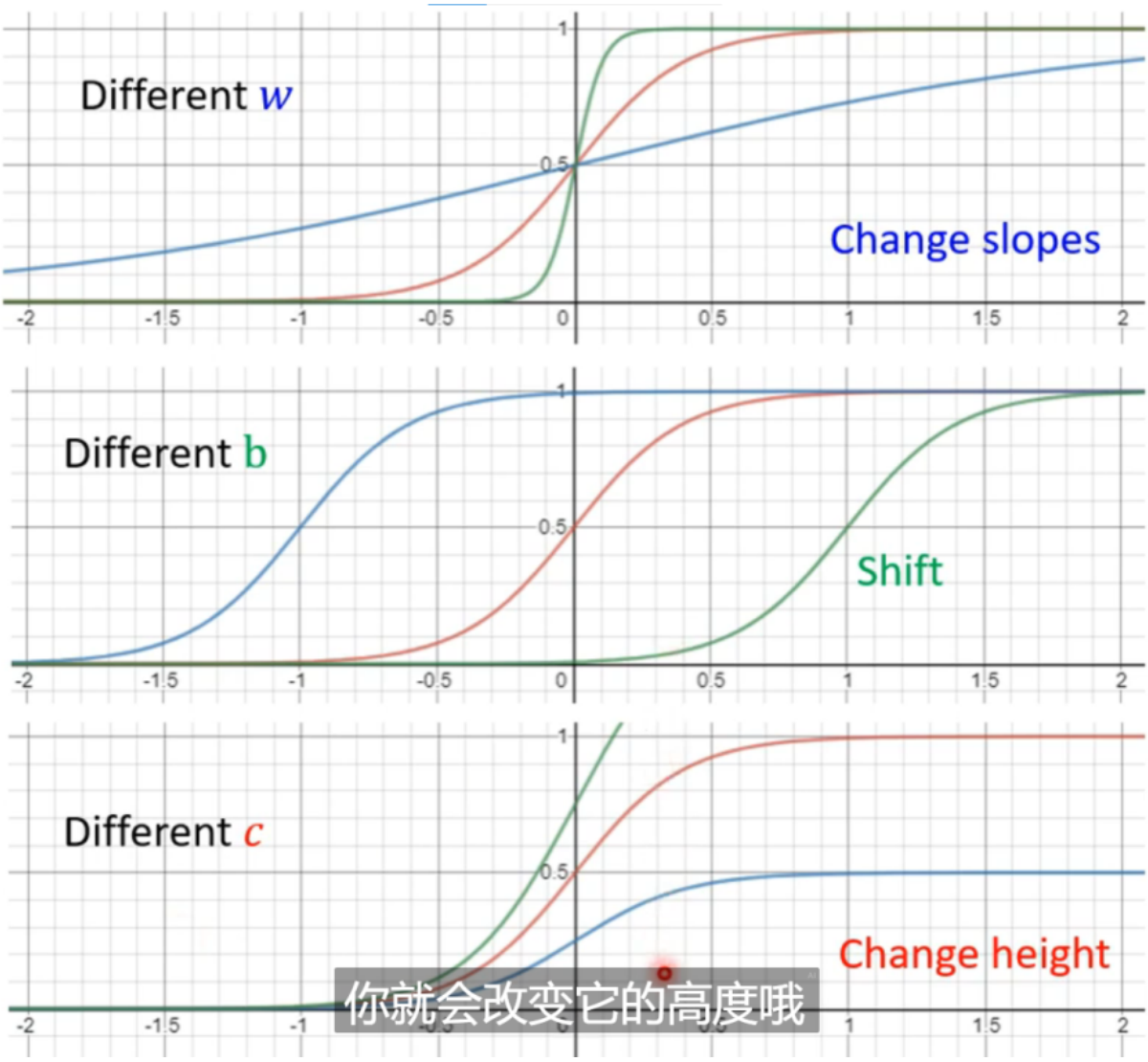




sigmoid函数



改变不同wbc结果：



$$y = b + wx_1$$

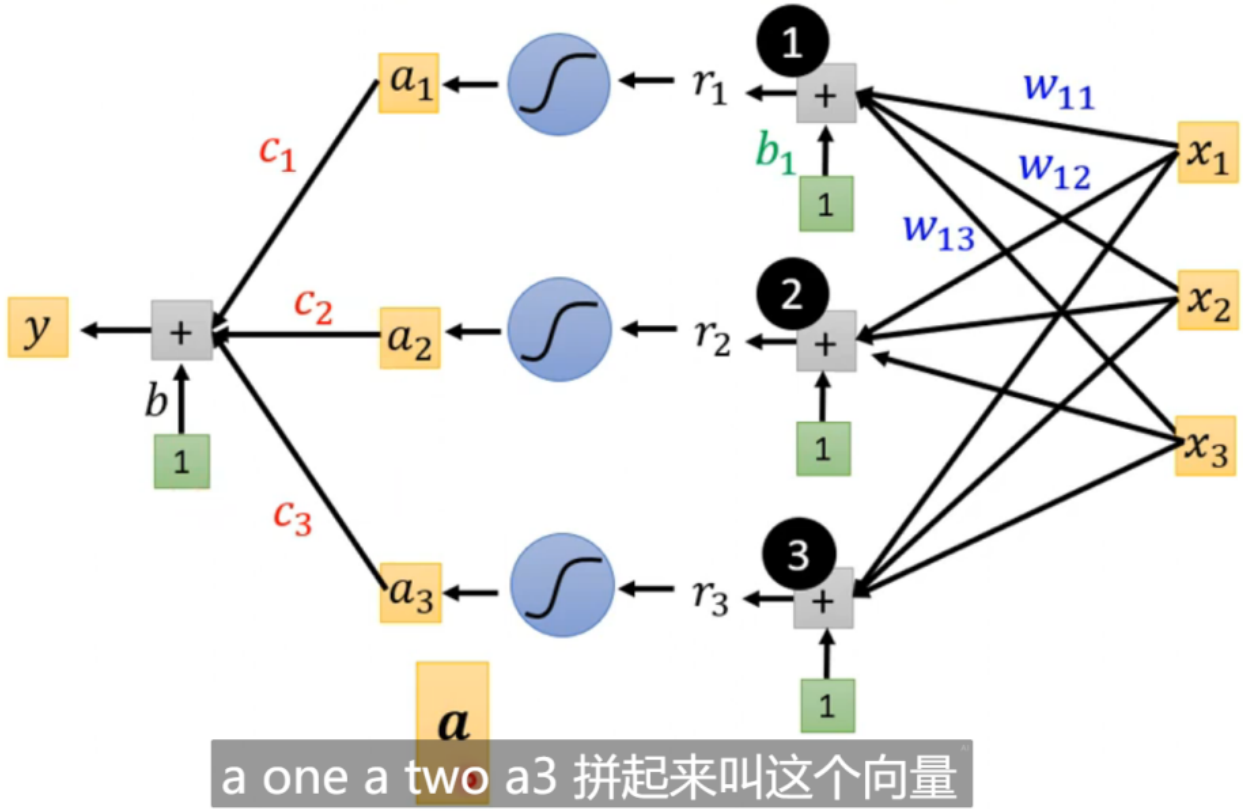
$$y = b + \sum_i c_i \, sigmoid(b_i + w_i x_1)$$

这边的y是一个值吗

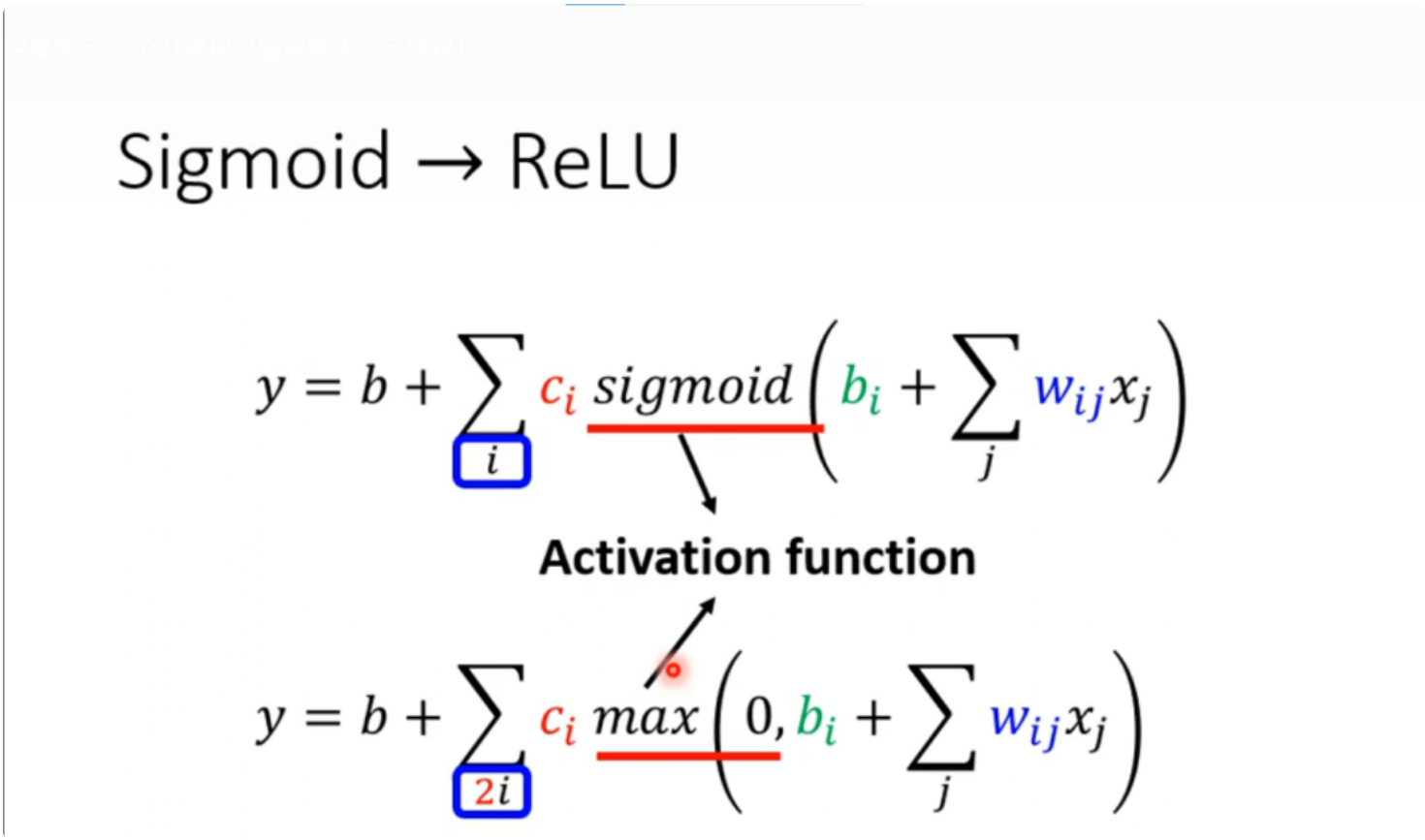
$$y = b + \sum_i c_i \, sigmoid\left(b_i + \sum_j w_{ij} x_j\right)$$

i: 1,2,3

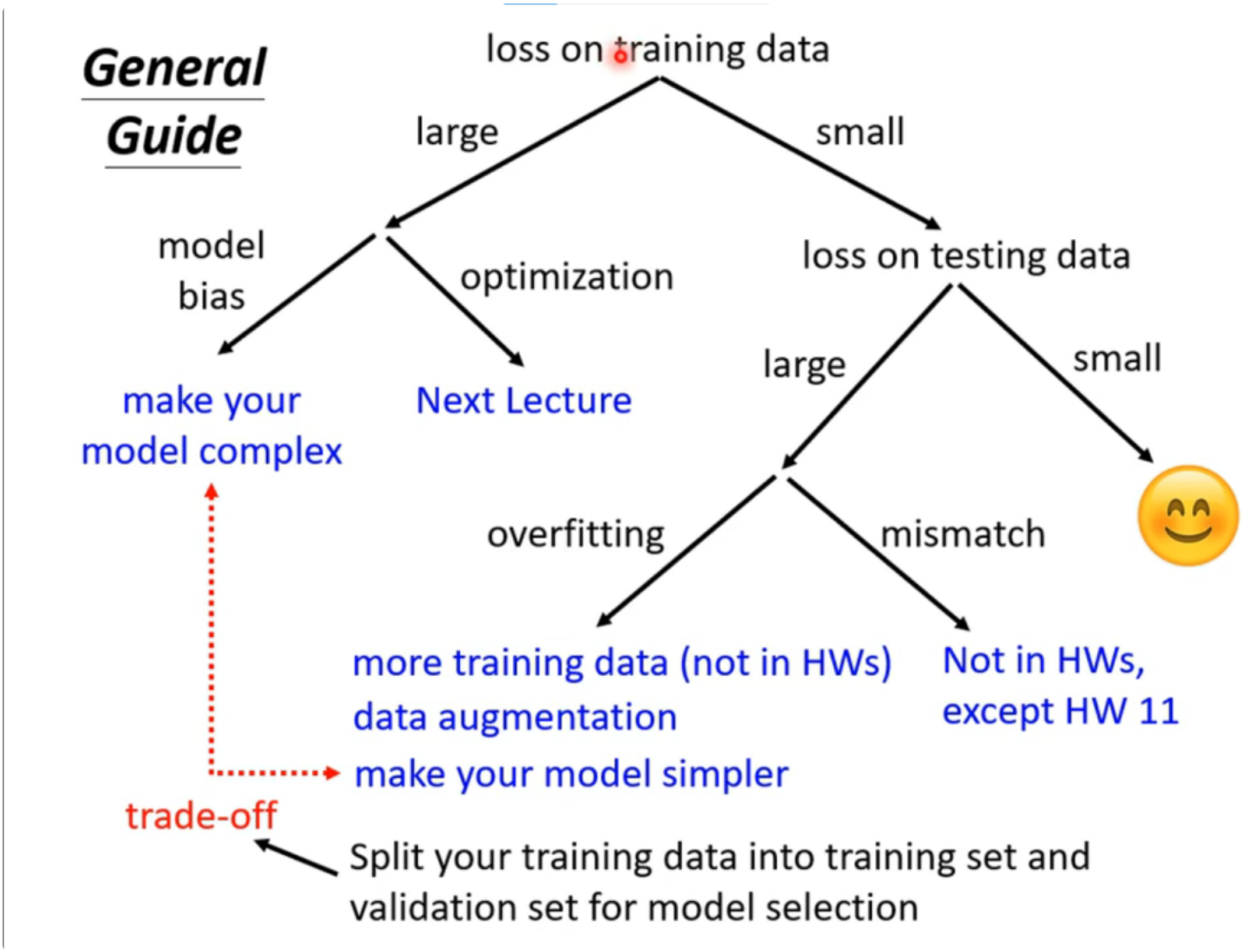
j: 1,2,3



a one a two a3 拼起来叫这个向量


Sigmoid → ReLU
$y = b + \sum_i c_i \, sigmoid\left(b_i + \sum_j w_{ij} x_j\right)$
Activation function
$y = b + \sum_{2i} c_i \, max\left(0, b_i + \sum_j w_{ij} x_j\right)$

2. 机器学习任务攻略


General Guide
loss on training data
large
small
model bias
optimization
loss on testing data
large
small
make your model complex
Next Lecture
overfitting
mismatch
more training data (not in HWs)
data augmentation
Not in HWs, except HW 11
make your model simpler
trade-off
Split your training data into training set and validation set for model selection