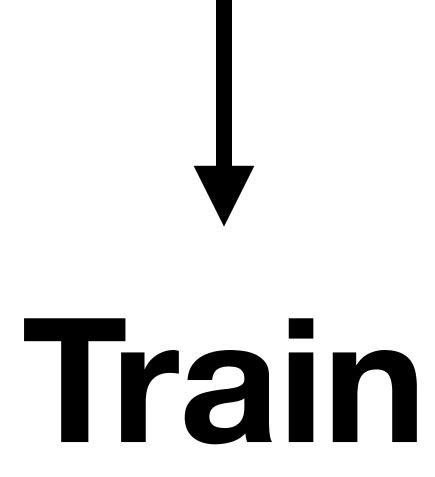
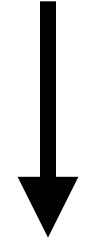
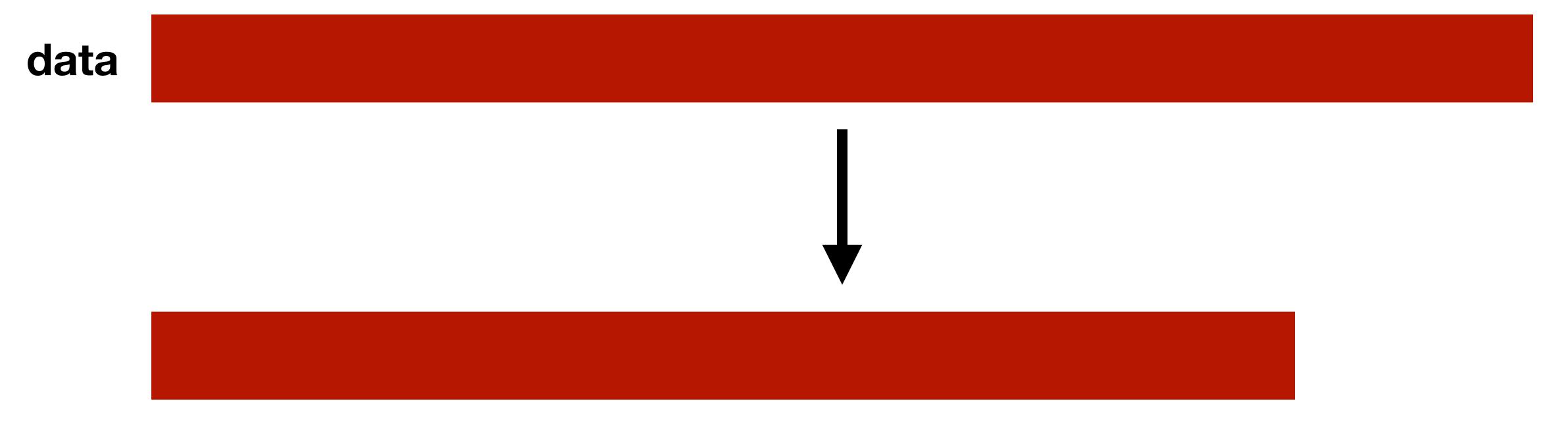
SC201

Lecture 5

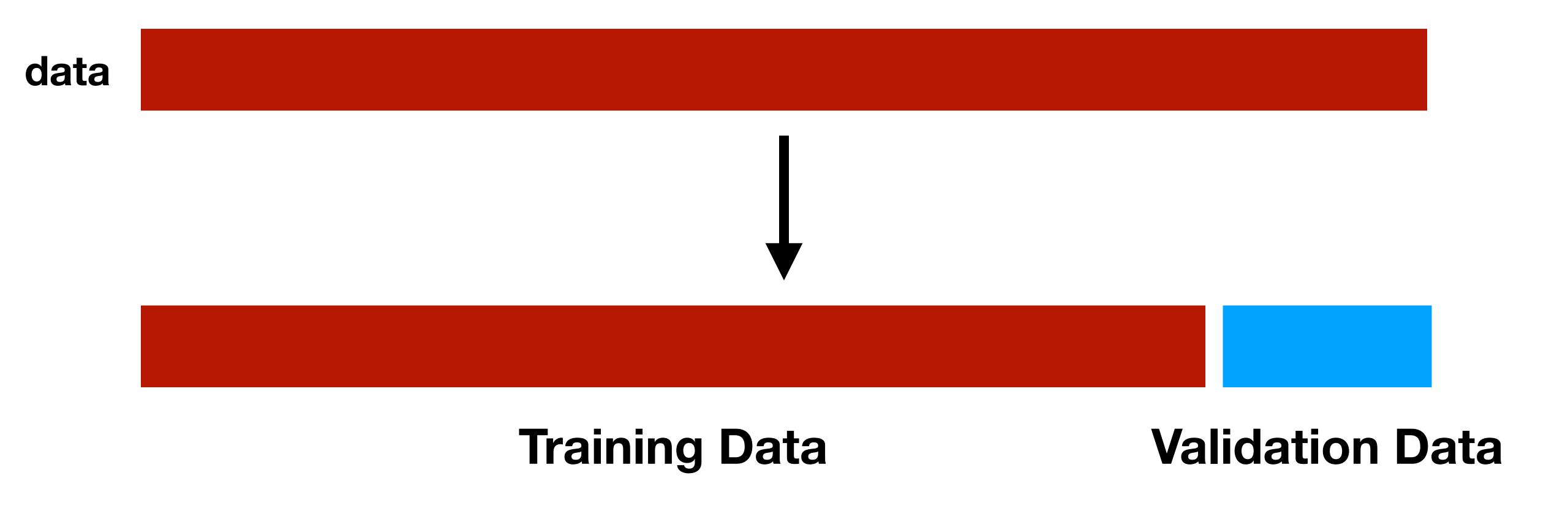








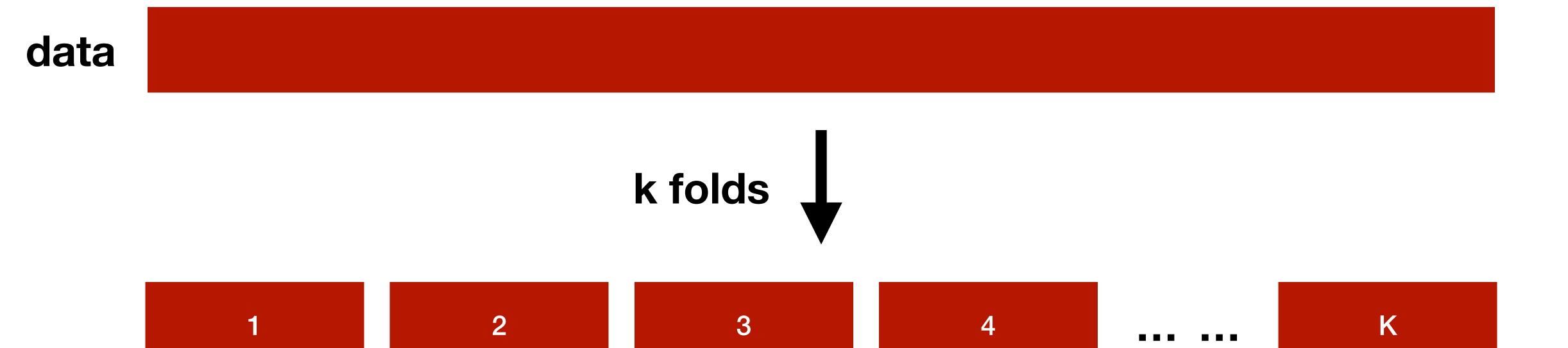
Training Data

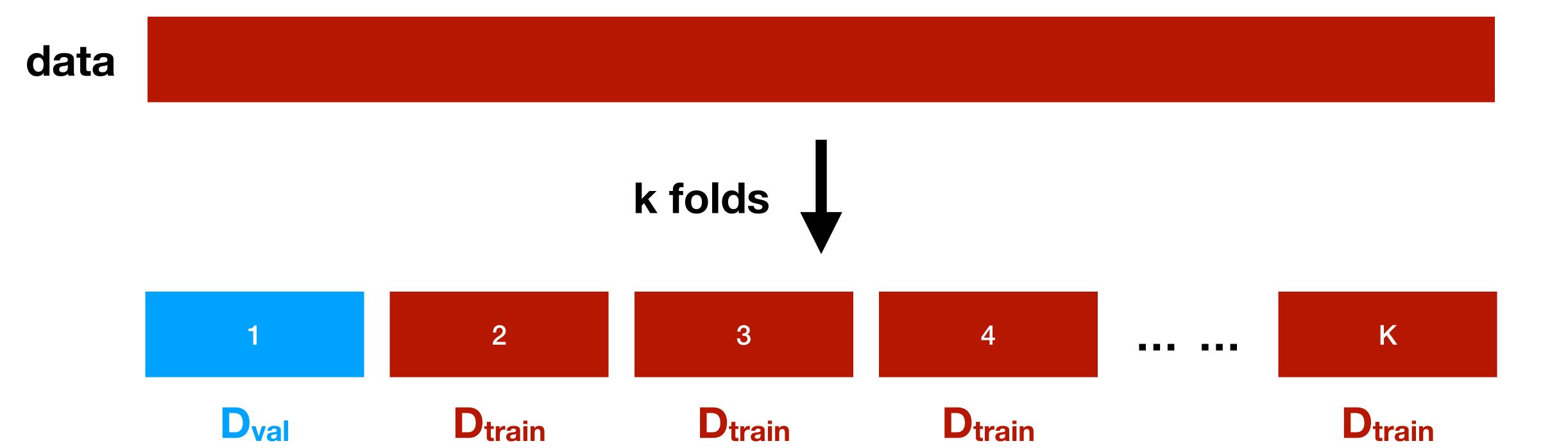


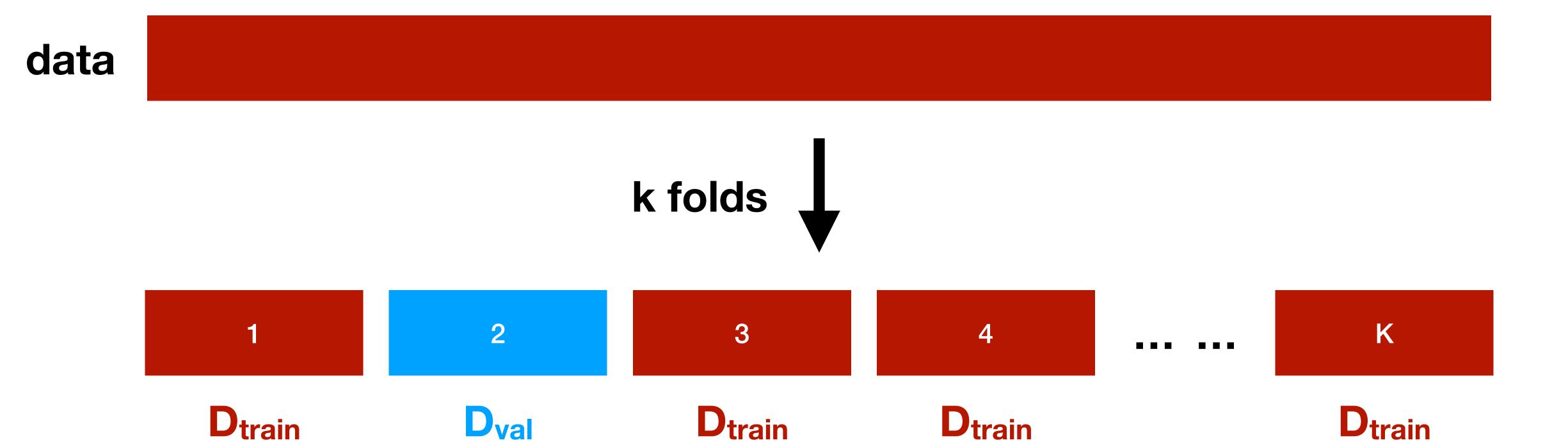
data **Validation Data Training Data** Test

Cross Validation

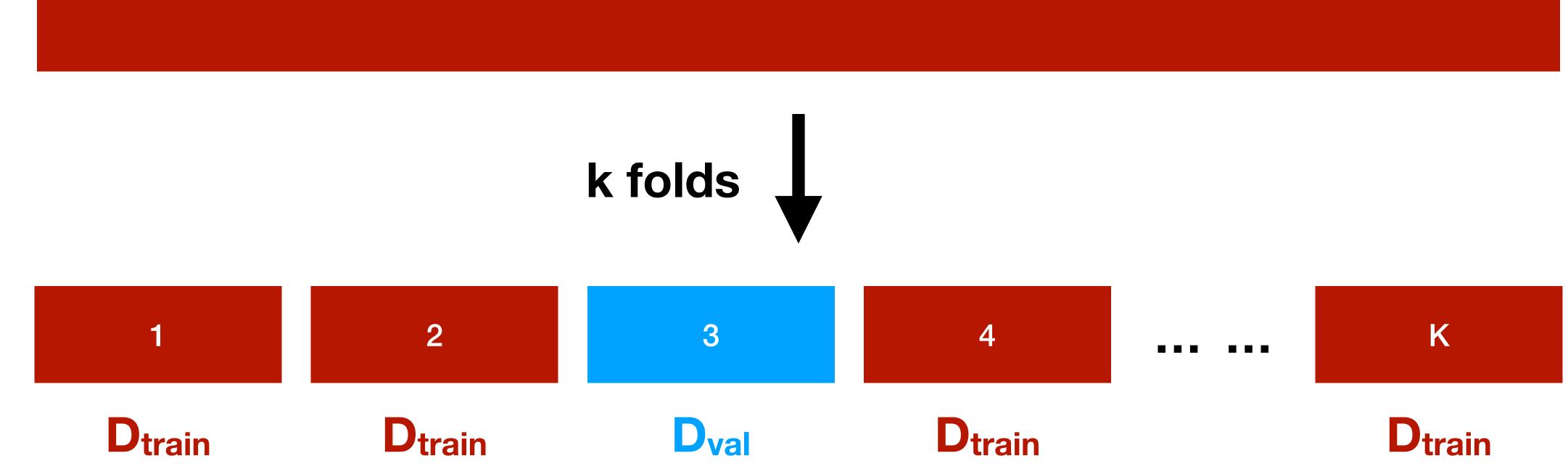




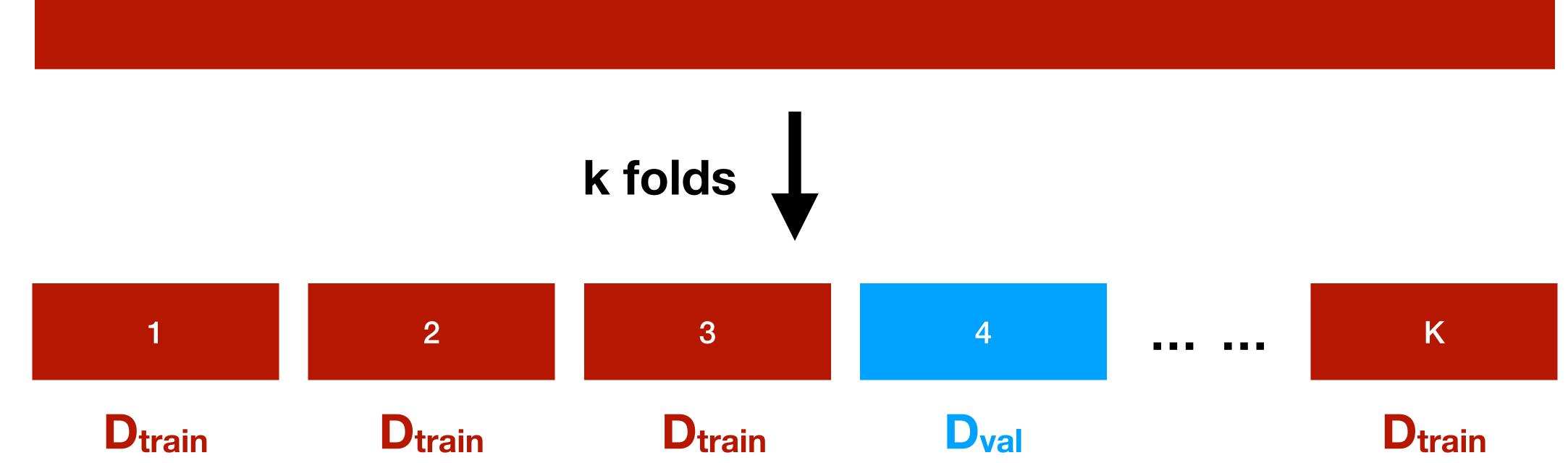




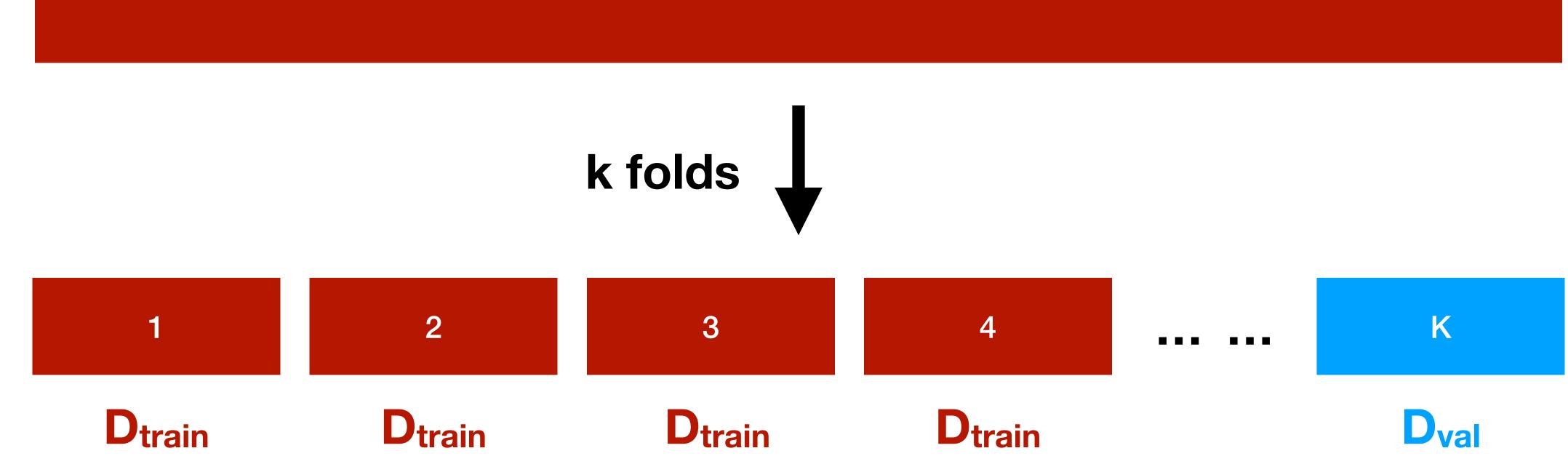


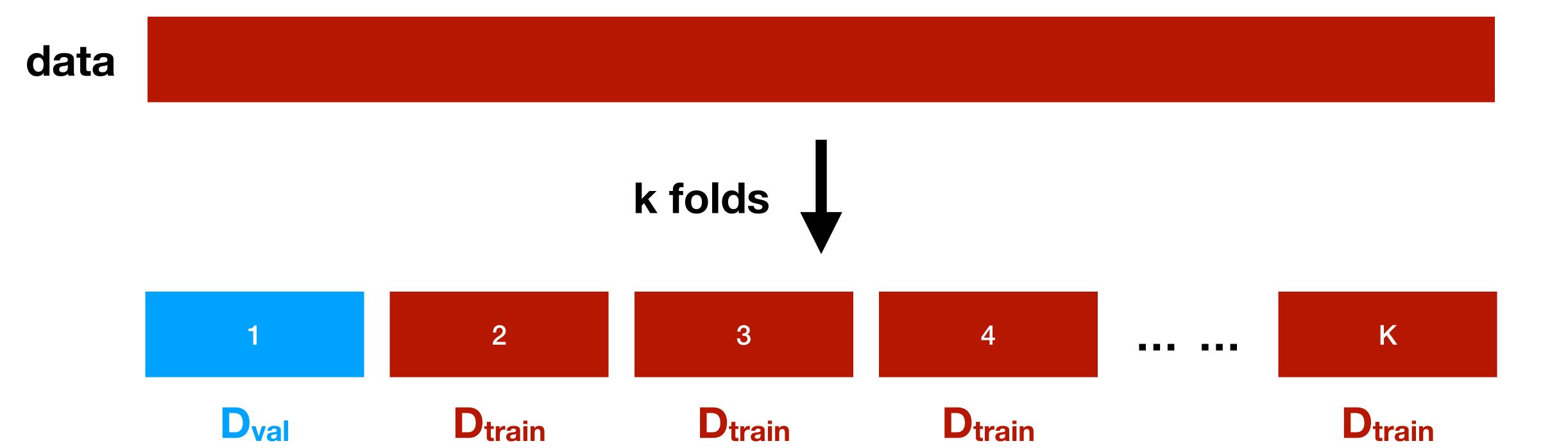


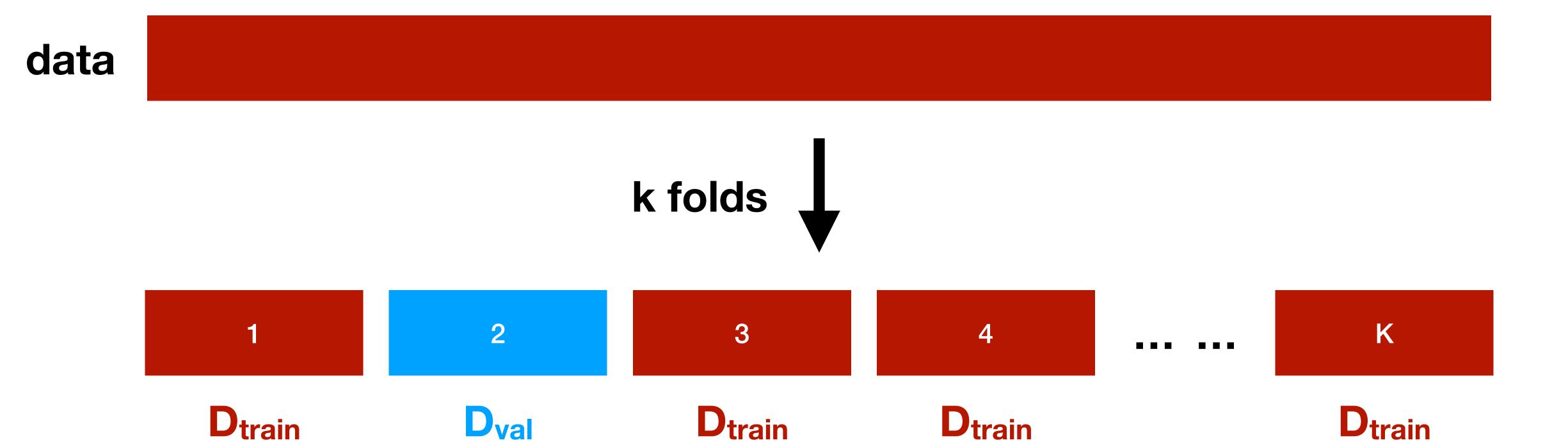




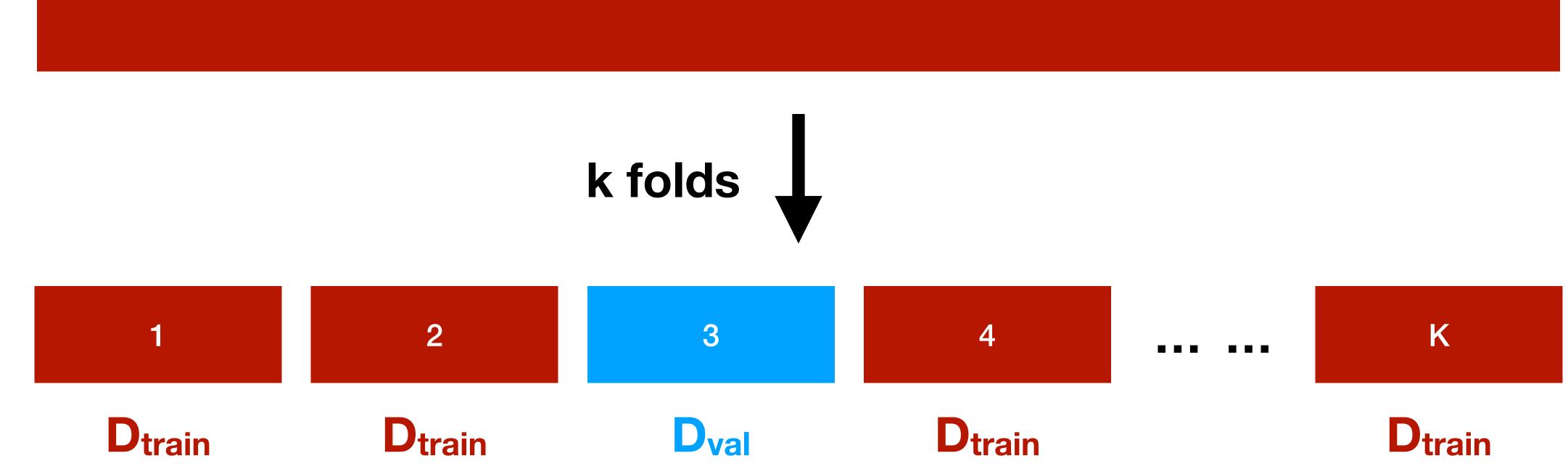




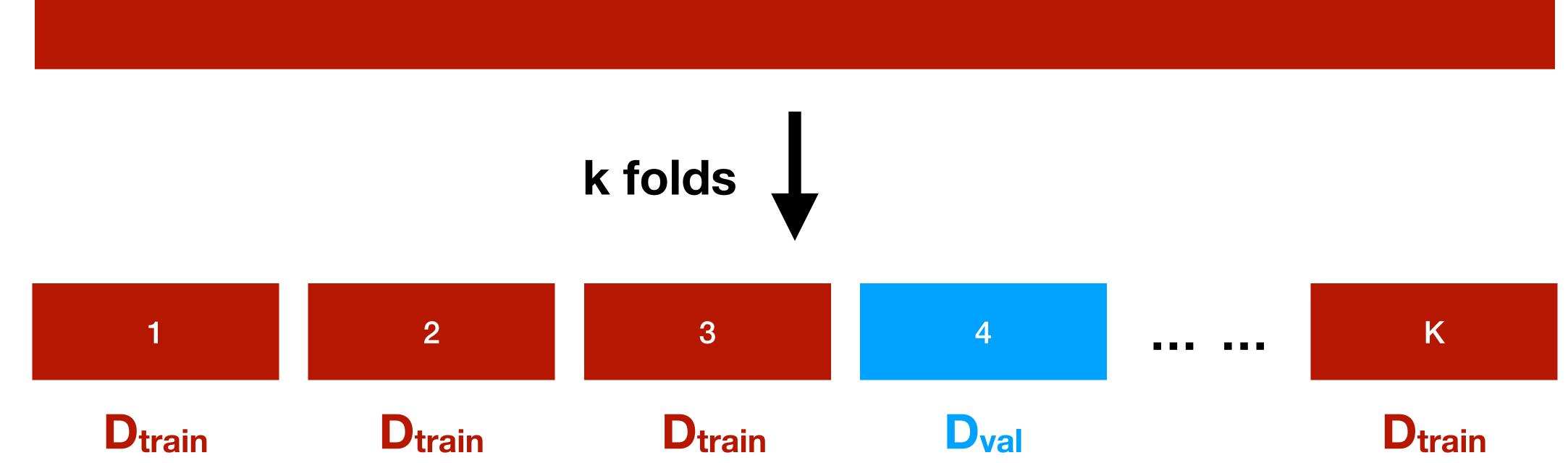




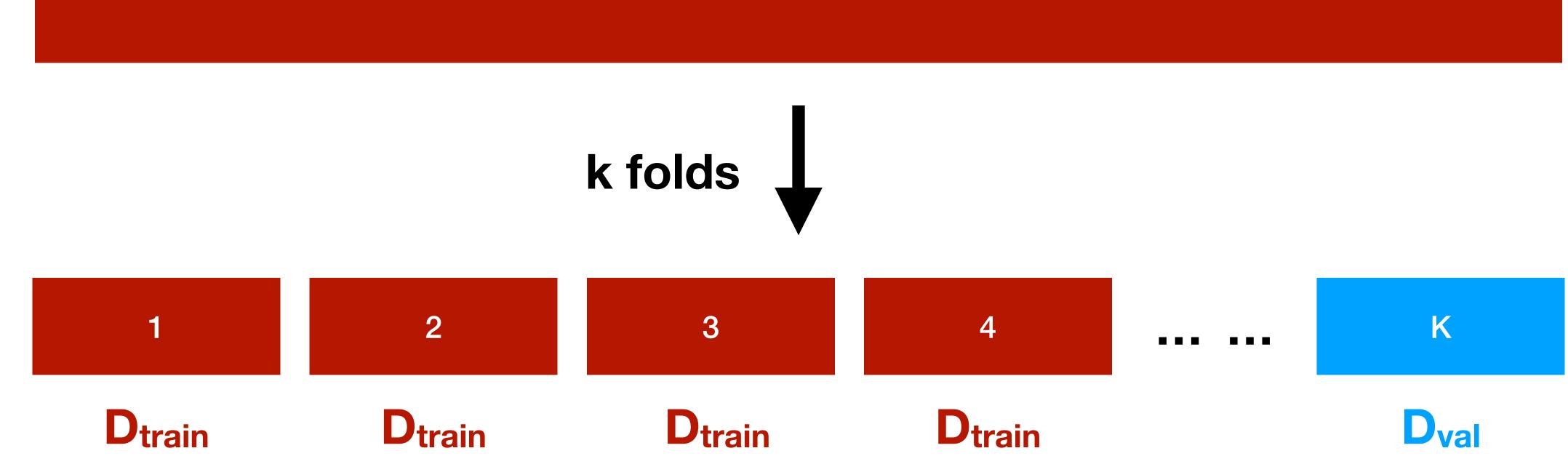






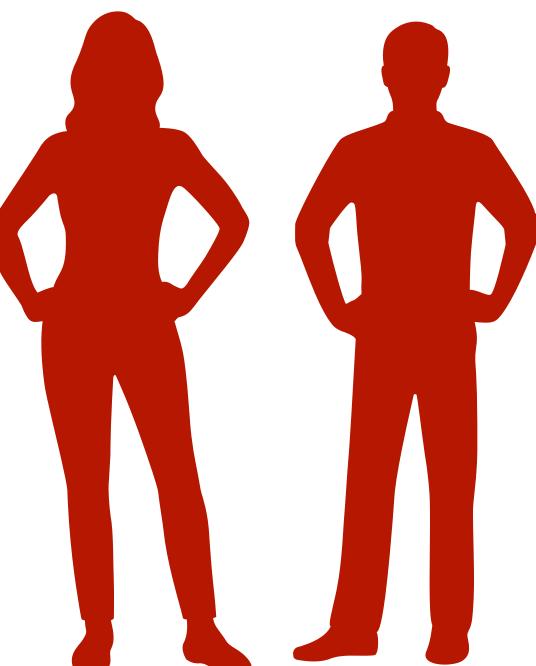






房地產公司要您建造一個「房價預測模型」! 如果您的模型估價比市價高,沒有顧客會想要跟你們家買房 但如果估價比市價低,公司利潤又會大受影響 因此最好的辦法就是讓模型預測出來的結果「比正確數值高一點」 這樣還可以有降價的空間(如果比市價低,買走了,就沒有了...) 假設 yi 是 True Label, hi 是模型預測的結果 請問您要怎麼調整 Loss Function (L) (對L=(h_i-y_i)²做調整)

讓模型 train 完之後產出的結果就會比正確數值高?



Suppose you train a logistic regression classifier and your hypothesis function h is

$$h = \sigma(\theta_0 + \theta_1 x_1 + \theta_2 x_2)$$
where $\theta_0 = 6$; $\theta_1 = 0$; $\theta_2 = -1$

Which of the following figure will represent the decision boundary as given by above classifier?

