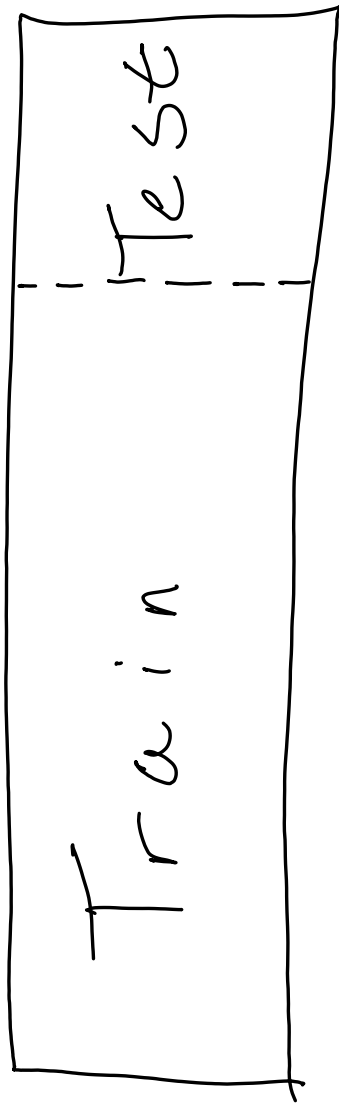


U
K
B
L
LL

Validation sets

- Why, What, How

Data set



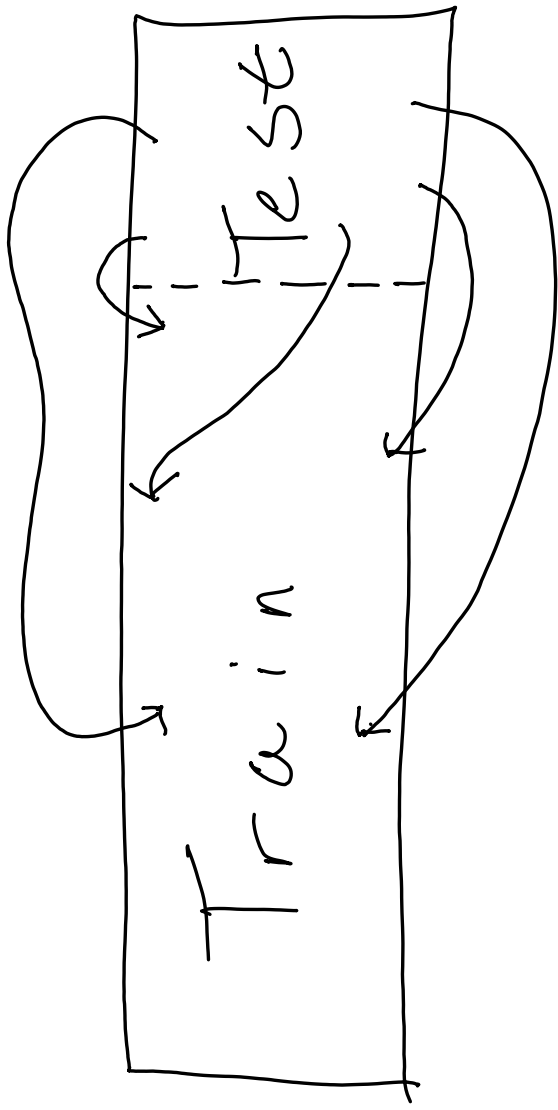
2 .

for i in \mathcal{H} :

$m = \text{fit}(\text{train}, i)$

$\text{skill} = \text{eval}(\text{test}, m)$

$\text{final_m} = \text{best}(\text{skill})$





// not to scale

$train, val, test = split(data)$

for θ in Θ :

$m = fit(train, \theta)$

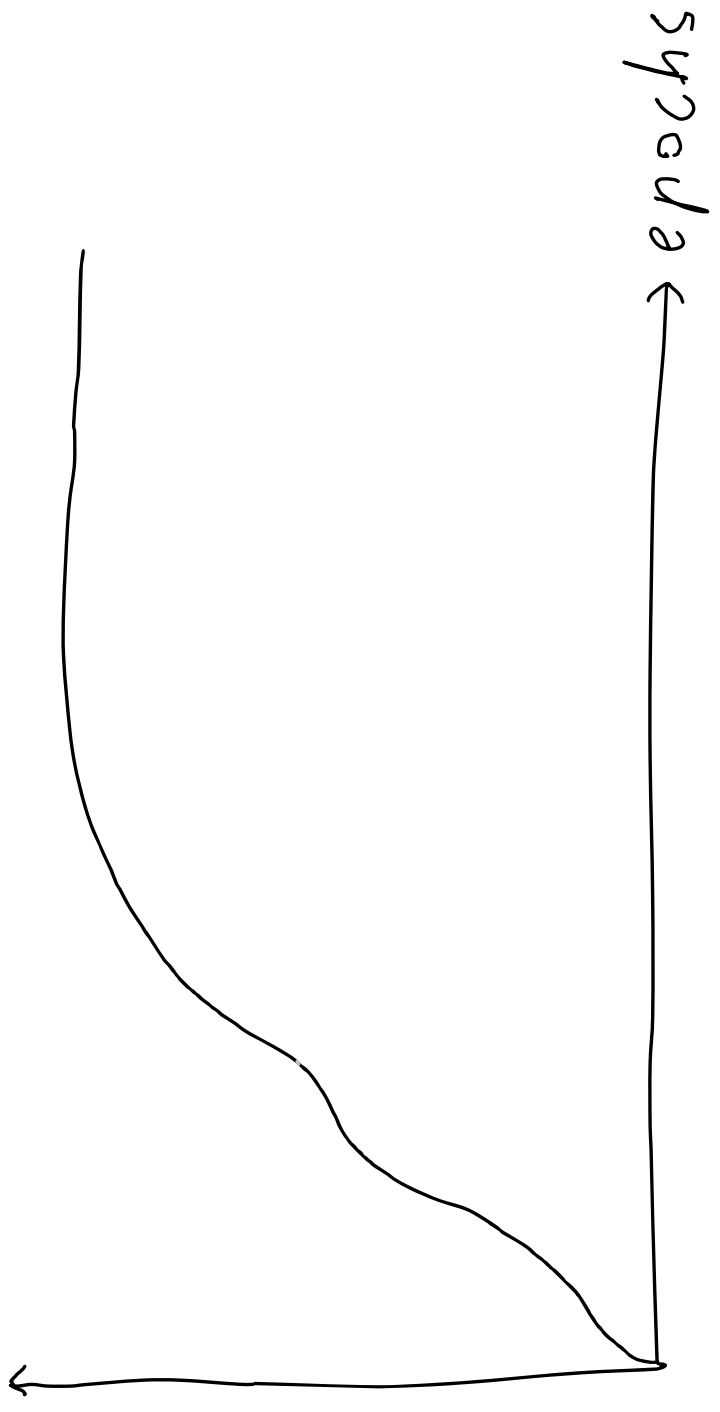
$s = eval(val, m)$

$final_skill = eval(test, m^*)$

λ_{skill} rent

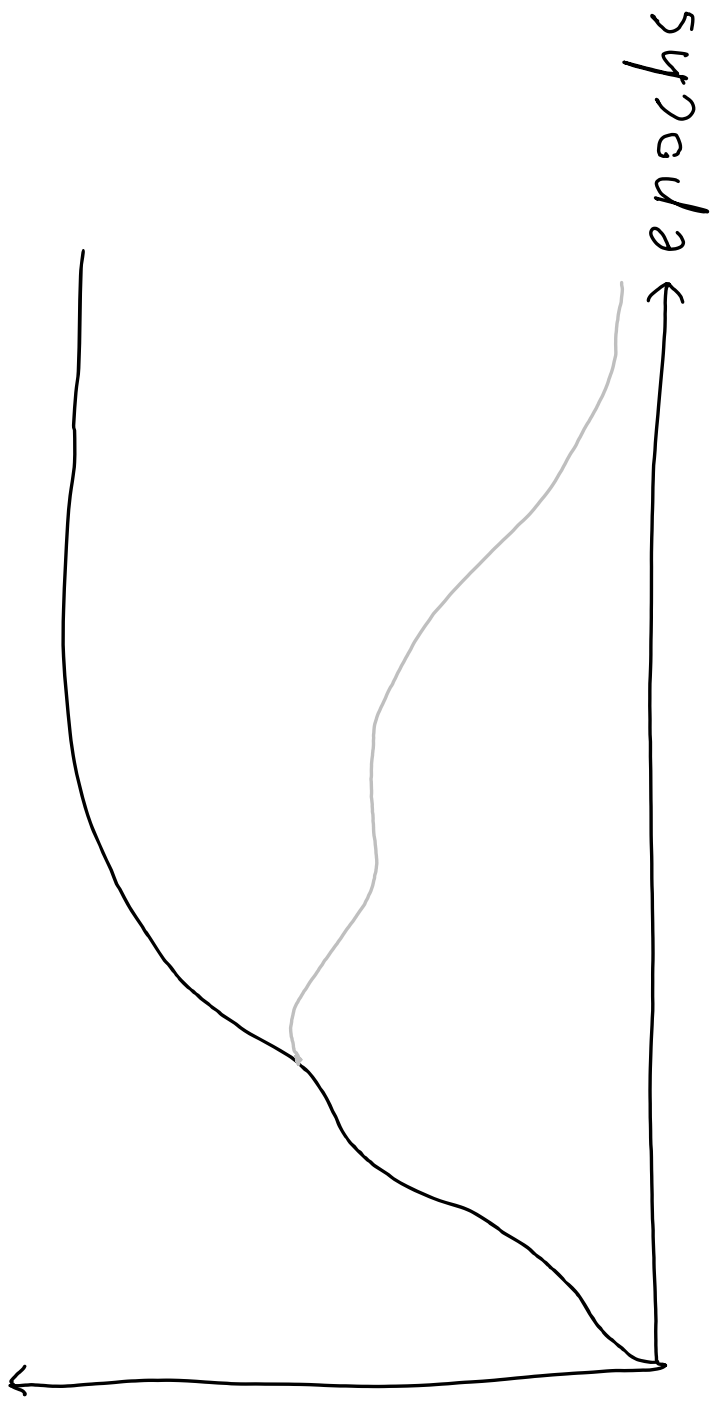
→ train

Accuracy



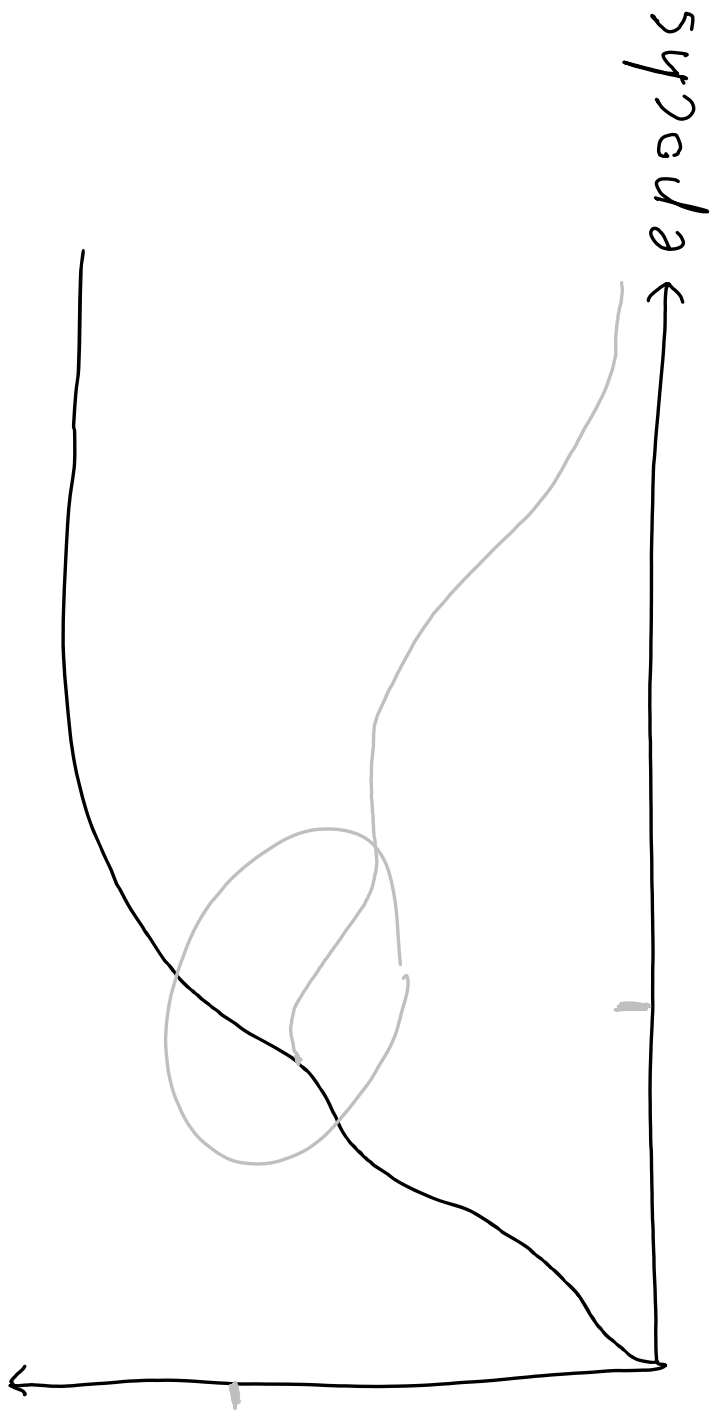
— train
— validation

Accuracy

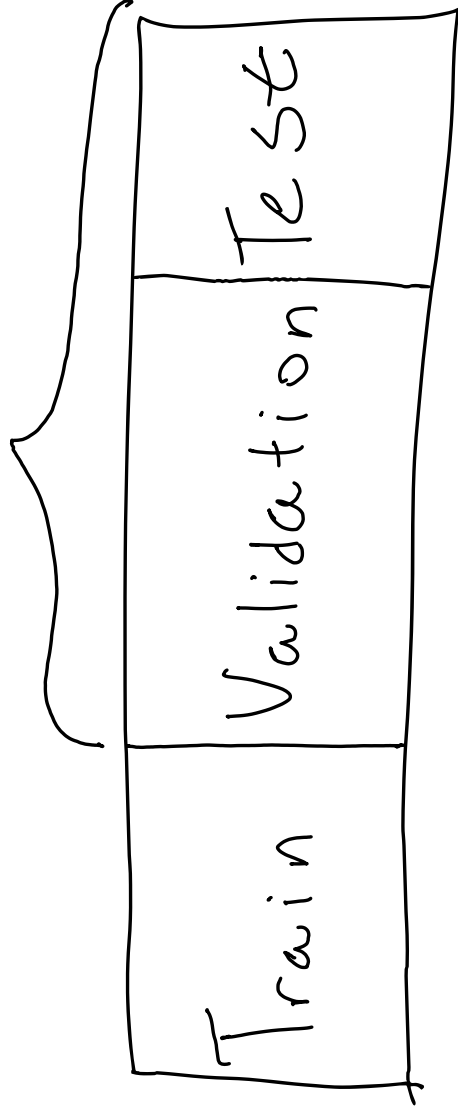


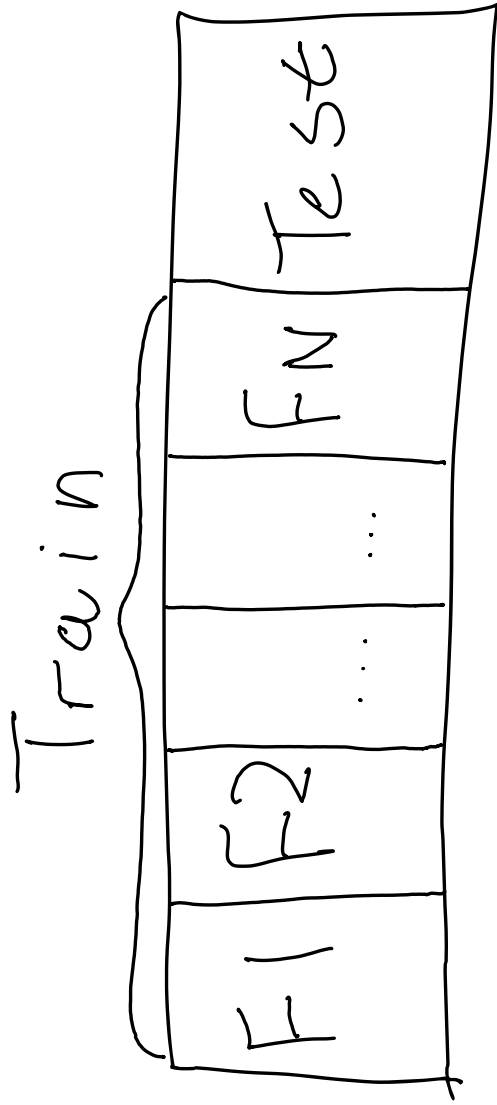
— train
— validation

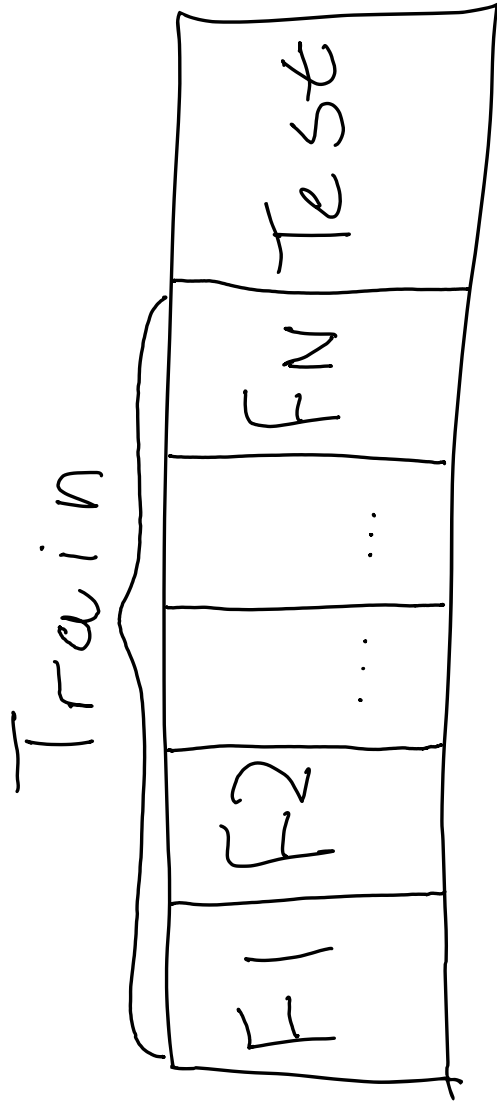
Accuracy



A lot of data







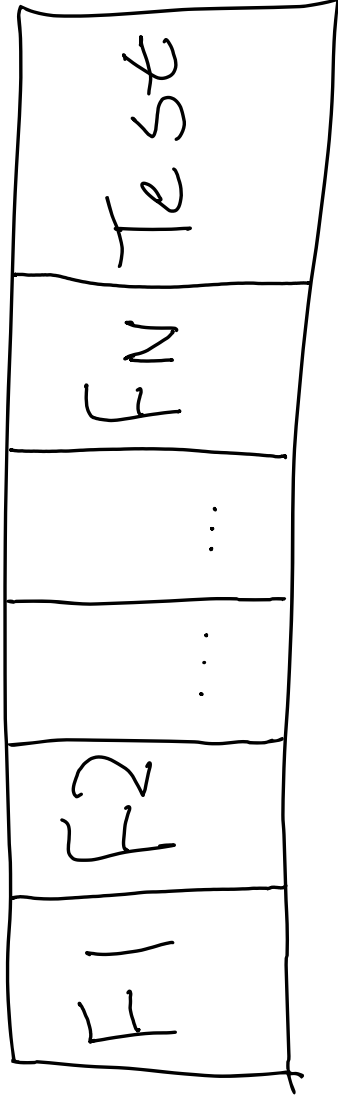
Param Search

F 1	F 2	F 3	F 4
F 1	F 2	F 3	F 4
F 1	F 2	F 3	F 4
F 1	F 2	F 3	F 4

Final eval {Test}

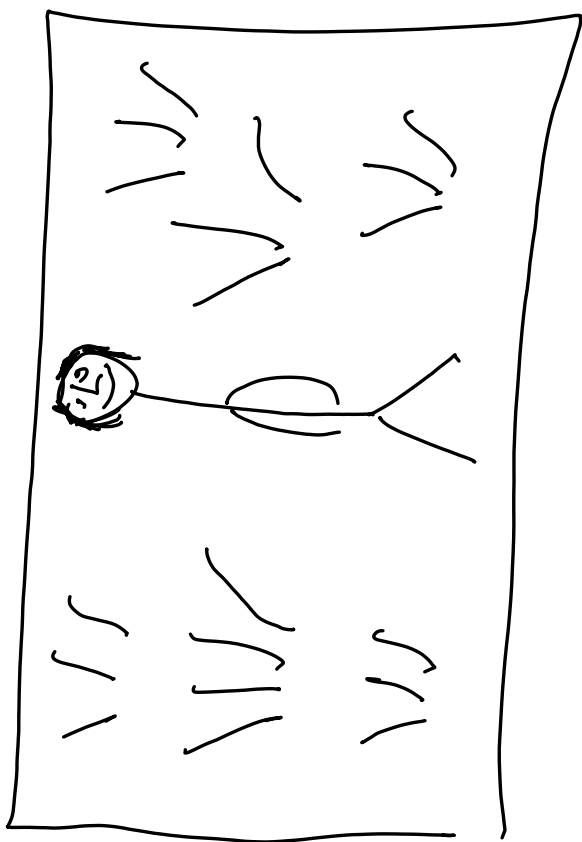
5 p / 1 x s

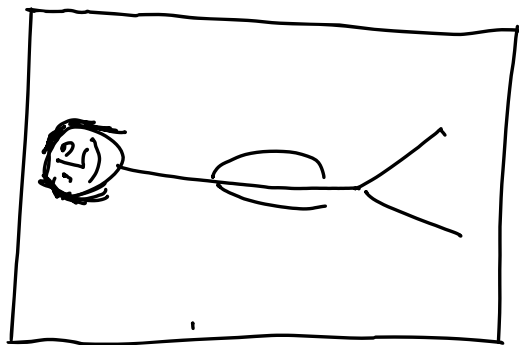
K-fold cross-validation



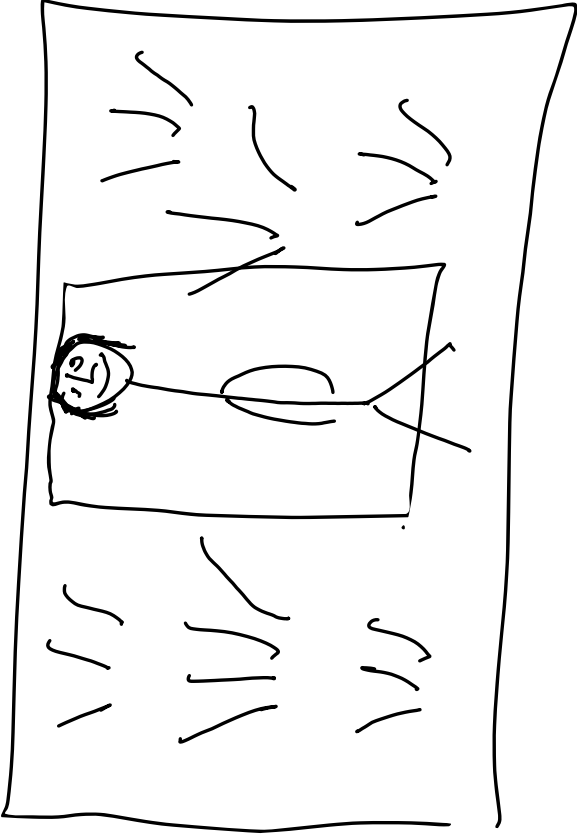
Semantic

Image Segmentation





Person



Person

