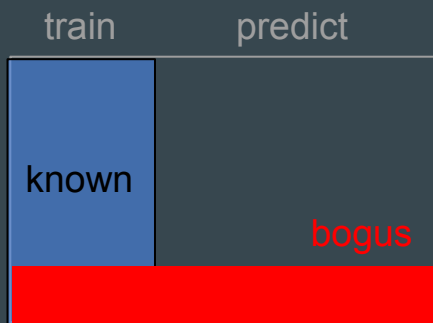


One-sided labels

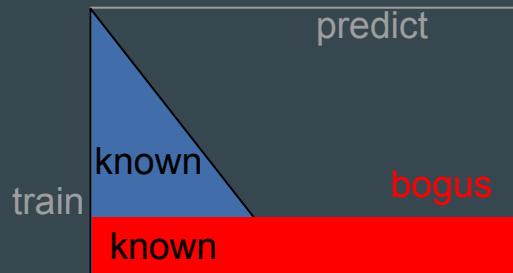
Ideal Machine Learning scenario

Labeled set representative of population



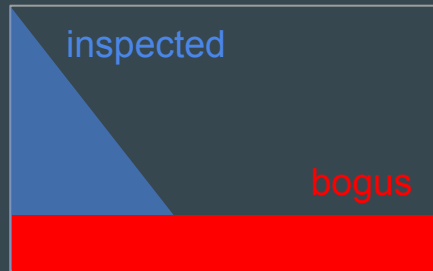
Real-life Machine Learning scenario

Labeled set non-representative,
but still fully labeled



Our Machine Learning scenario

One sided labels for non-representative set,
but labeled class rare in the population

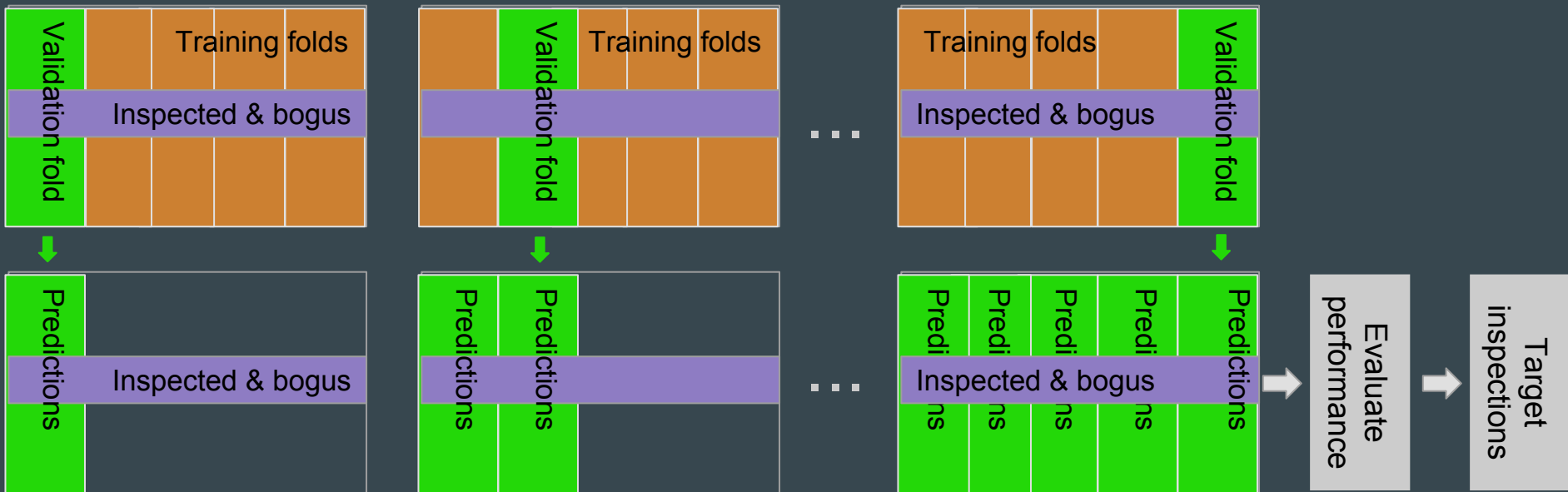
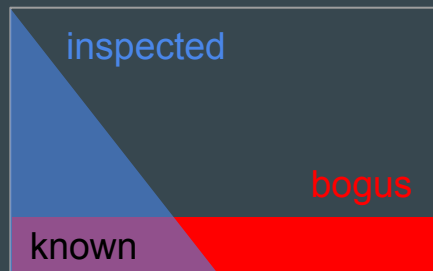


One-sided labels - solution

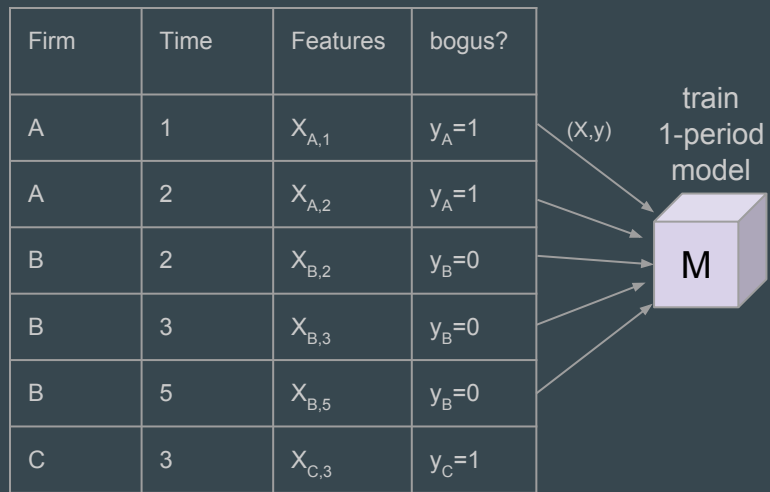
Start with predicting (*inspected* & *bogus*) vs. the world

Use cross-validation to predict for each unknown firm (when it is in the validation fold)

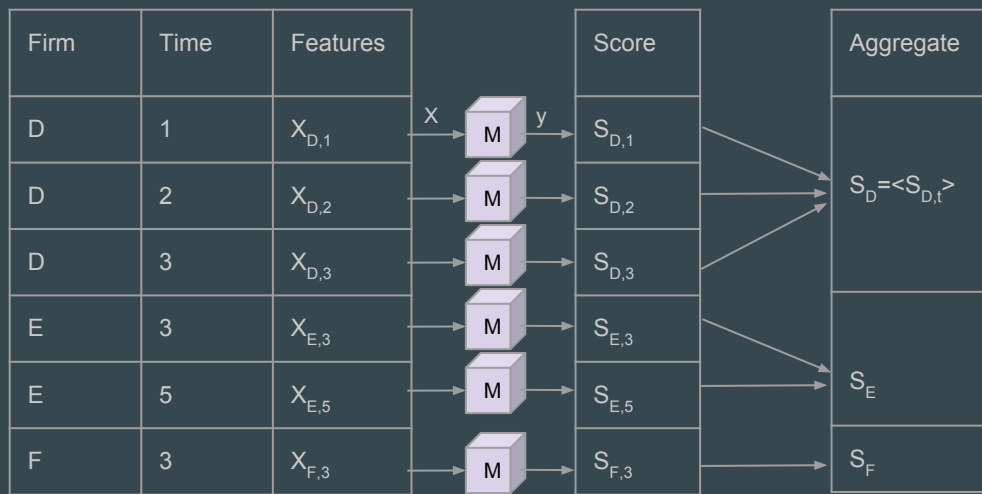
Evaluate performance



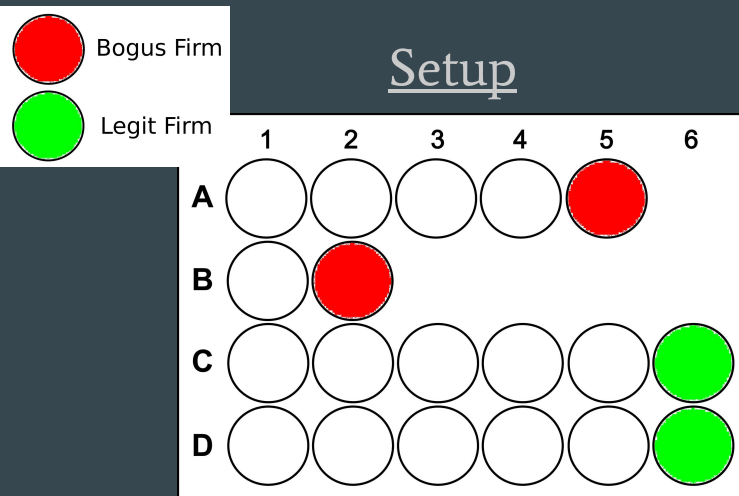
Train



Predict

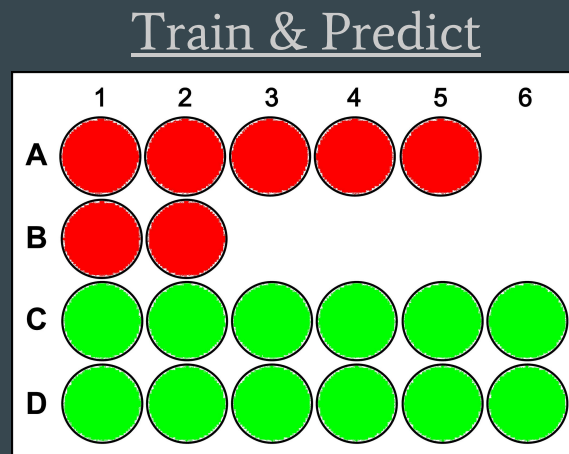


Point-in-time simulation



Roll back observations to the state of knowledge at time period T

$T = 6$



$T = 3$

