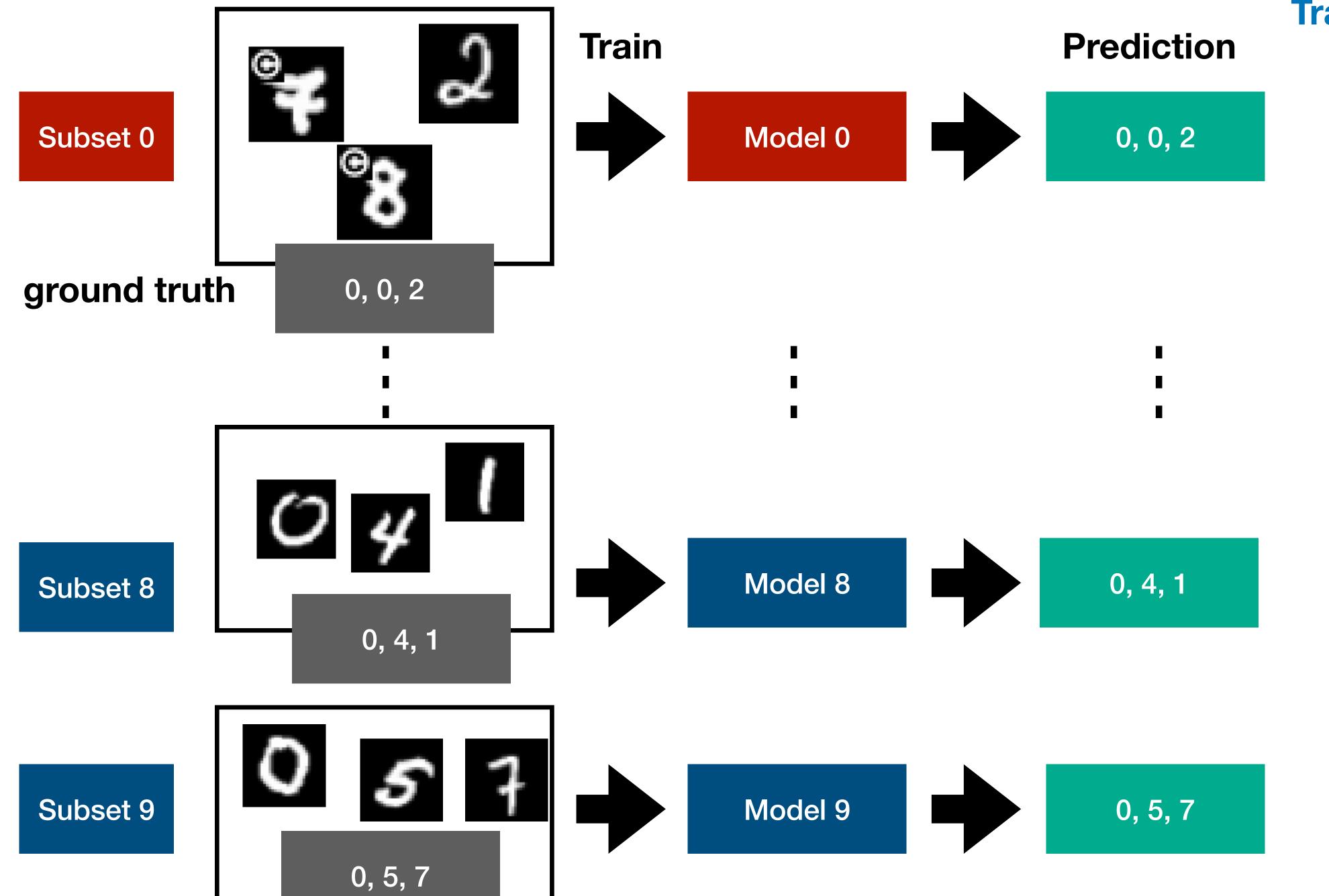
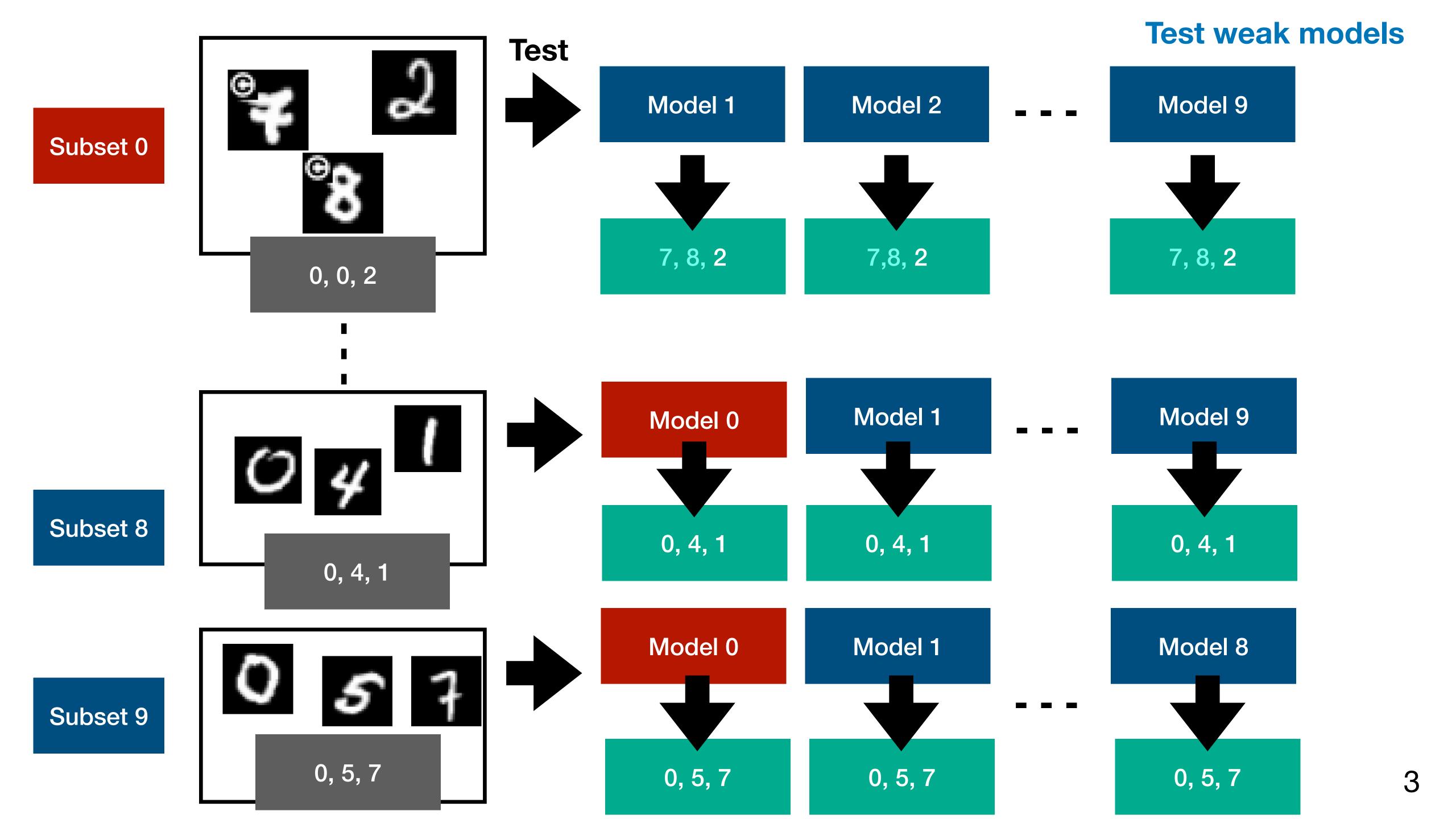
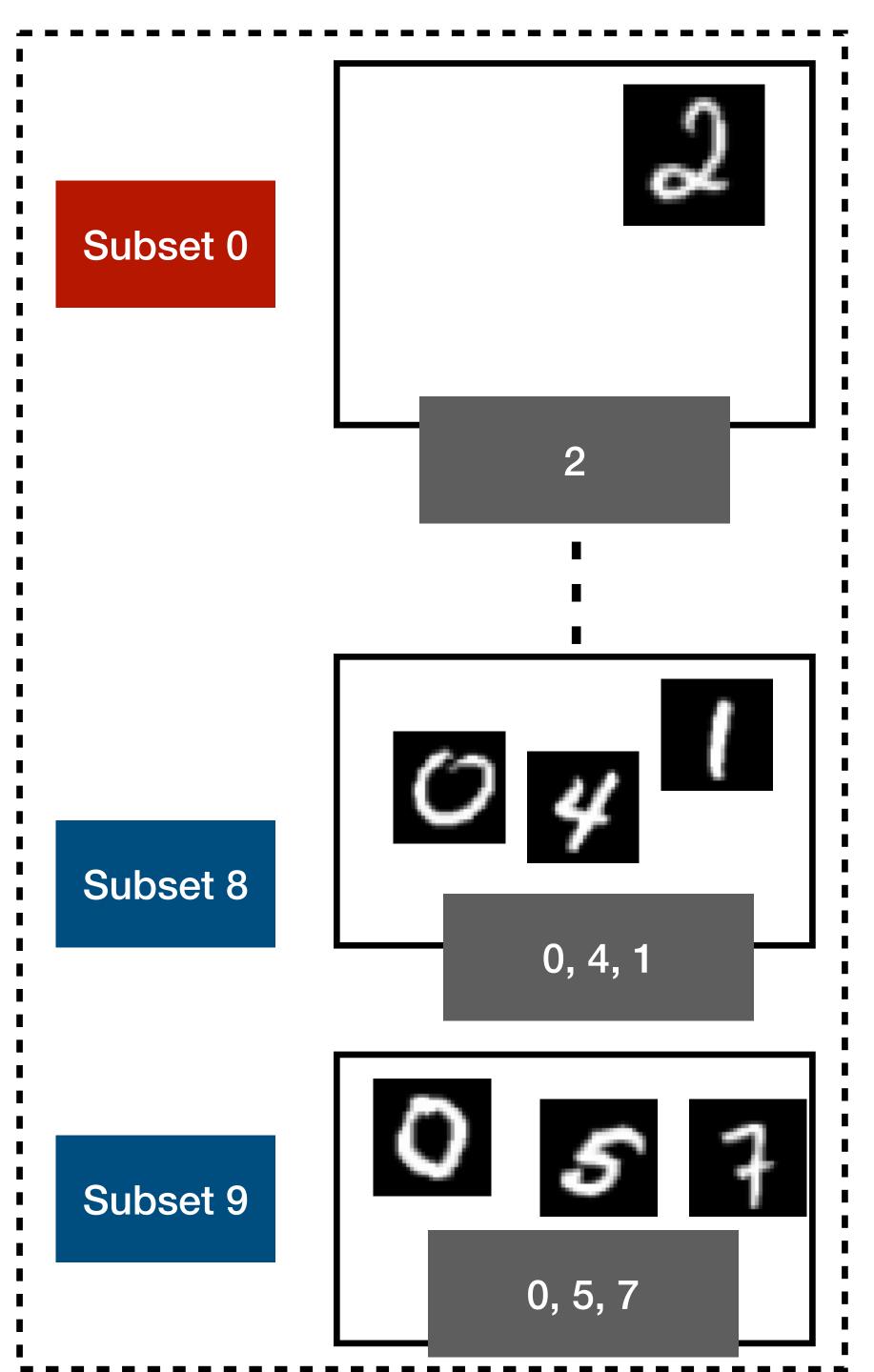
Detection of Backdoor Sources with Cross-Validating Ensembles

CC CHANG

Training weak models



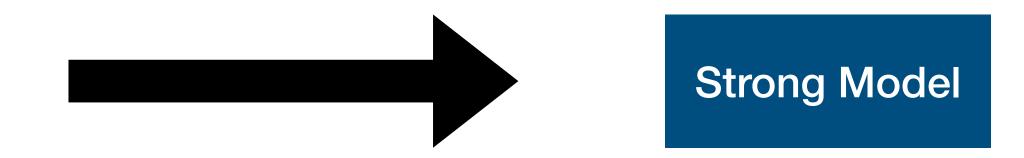


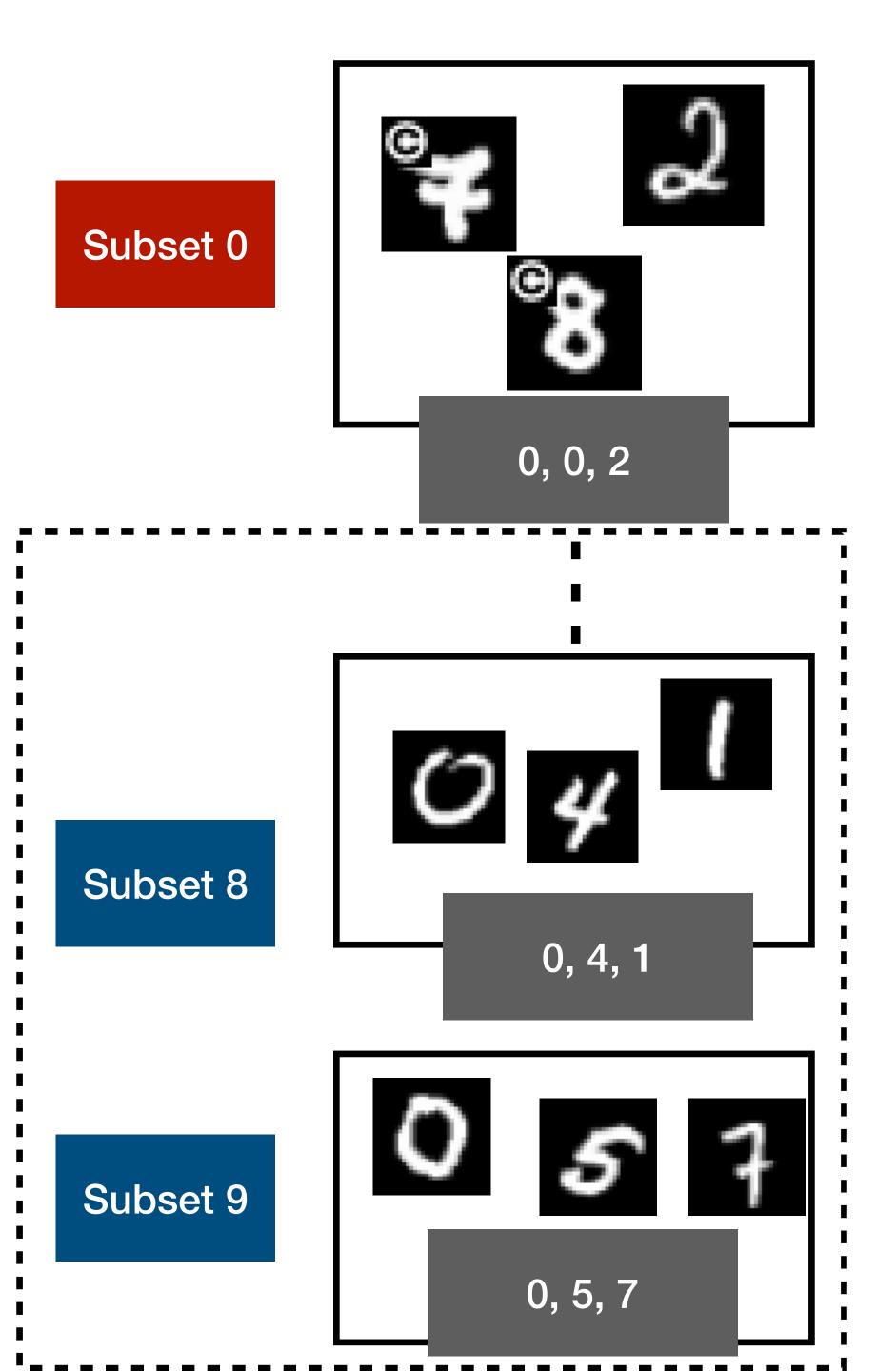


Remove potentially poisonous samples

Threshold (sample):
5 out of 9 models cannot
correctly predict the ground-truth

Remove potential poisonous samples and use the remaining data to train



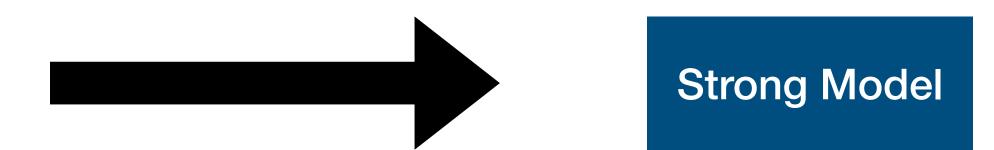


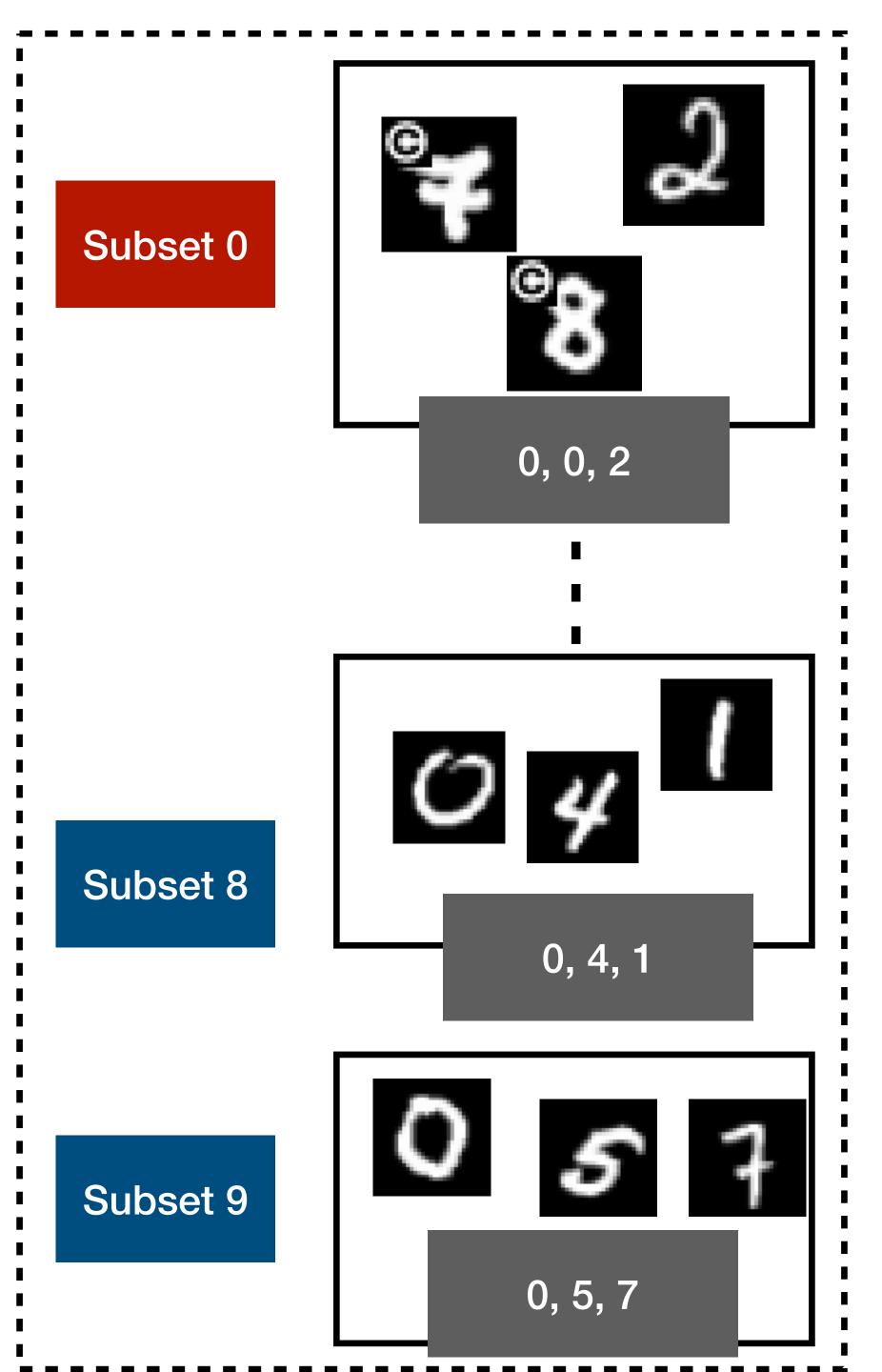
Remove potentially poisonous subset

One potentially poisonous sample means: 5 out of 9 models cannot correctly predict the ground-truth.

Threshold (subset):
10% of samples in the subset are potentially poisonous.

Remove potentially poisonous subsets and use the remaining data to train



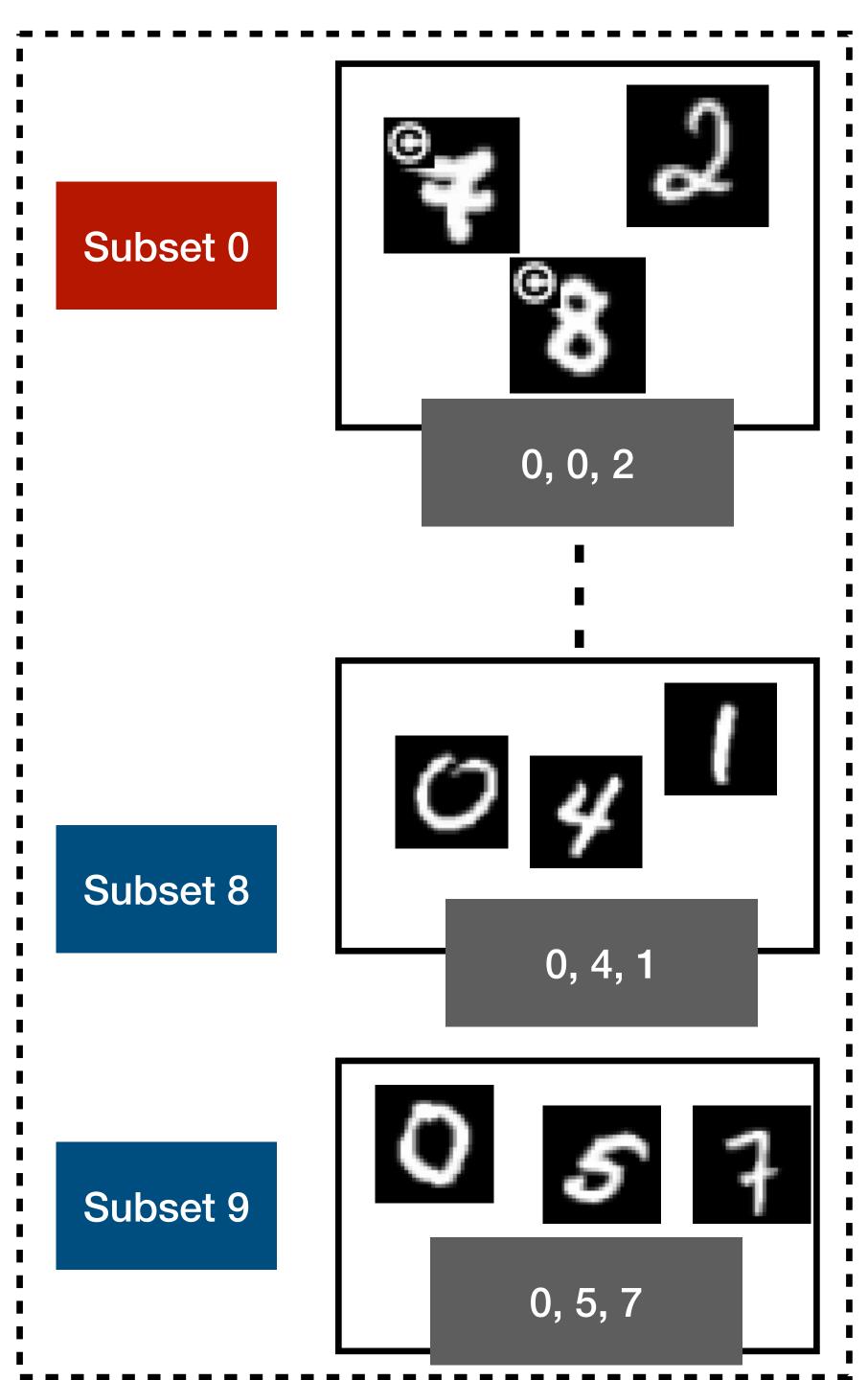




Use all data to train



Strong Model



Experimental Setup:

How many samples in each subset?

Ensure Balanced class labels

Percentage of poisonous samples in whole dataset?

Percentage of poisonous samples in the subset?

Percentage of poisonous samples in the subset must greater than "Threshold (subset)"