

SHUFFLING

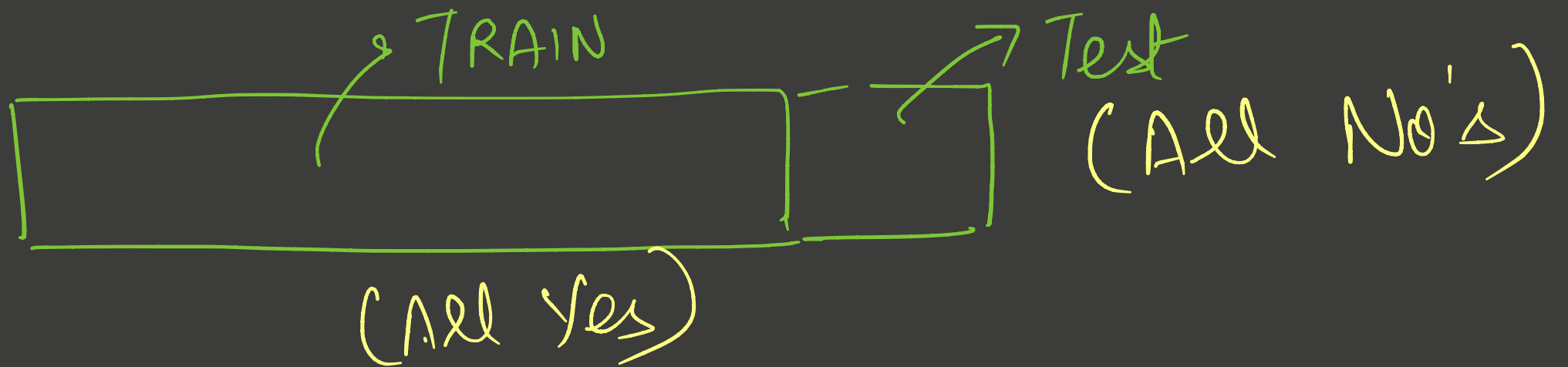
Assume dataset is:

SNO	x	Class
1		Yes
2		Yes
3		Yes
4		⋮
⋮		⋮
⋮		No

} All Yes

} All No

K-FOLD CROSS VALIDATION



will we LEARN ANYTHING USEFUL?

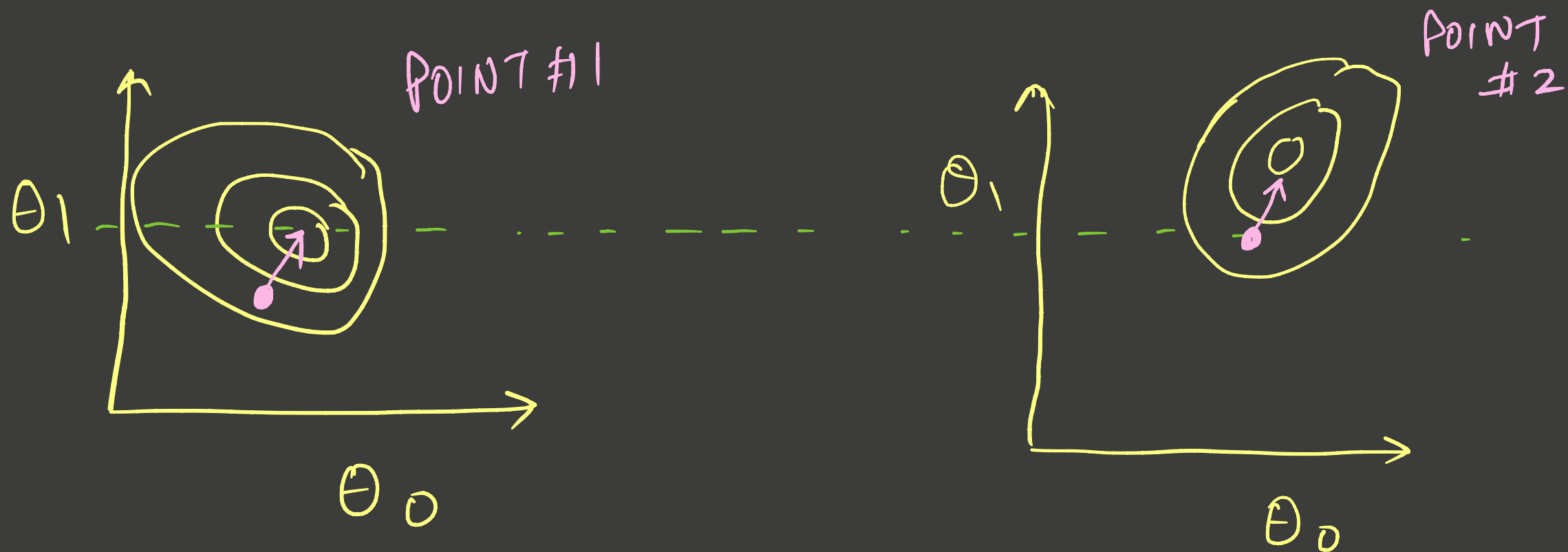
No!

SOLUTION

SHUFFLE BEFORE LEARNING

WHY SHUFFLE FOR STOCHASTIC G.D.?

SEE CONTOURS FOR 2 POINTS



\Rightarrow BIASED LEARNING AS POINT #2 FOLLOWS POINT #1

\Rightarrow FALLING INTO LOOP!

S.G.D. ON PT # 1 $\theta_0 + .2, \theta_1 - .2$

S.G.D. ON PT # 2 $\theta_0 - .2, \theta_1 + .2$