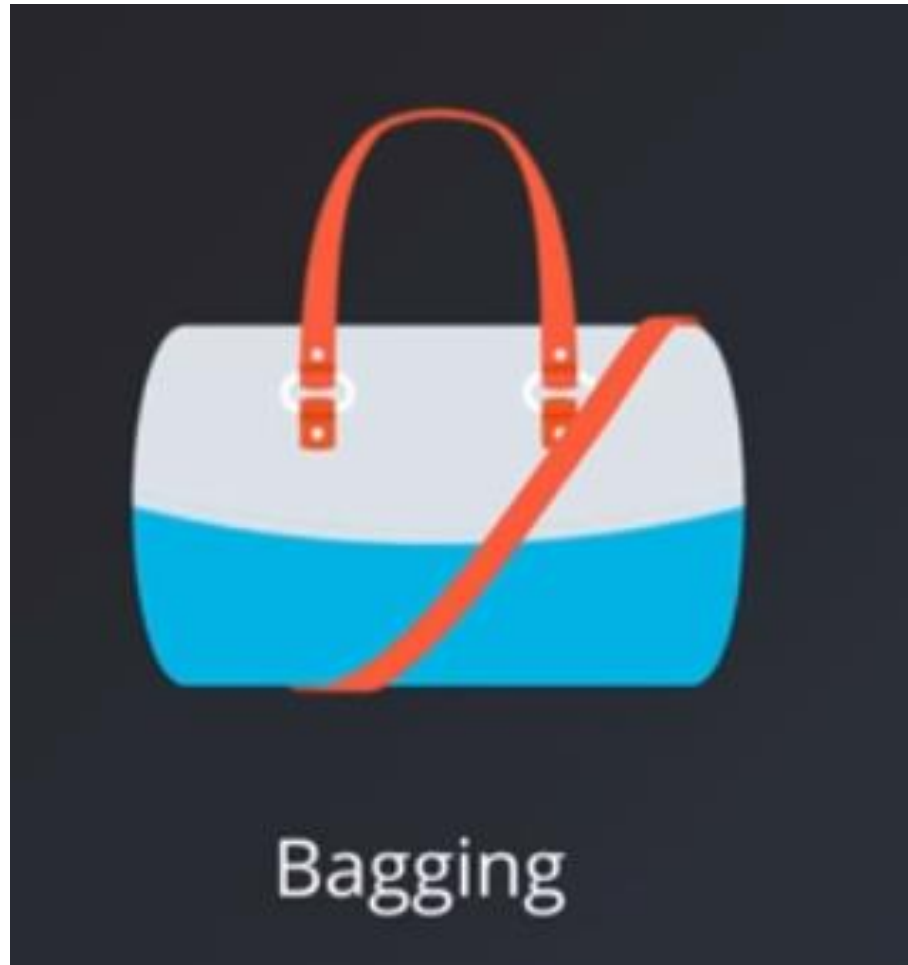
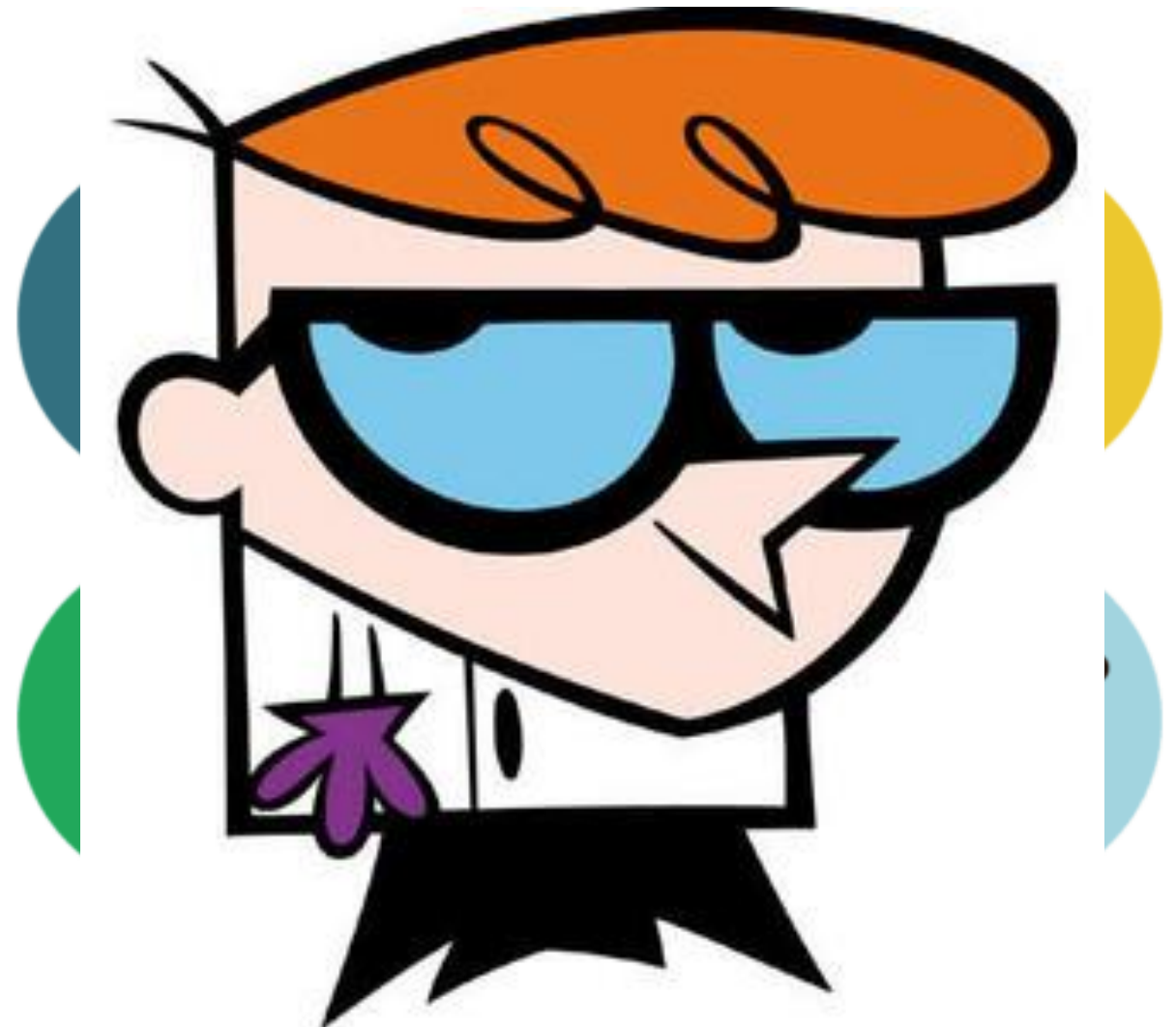


ENSEMBLE METHODS

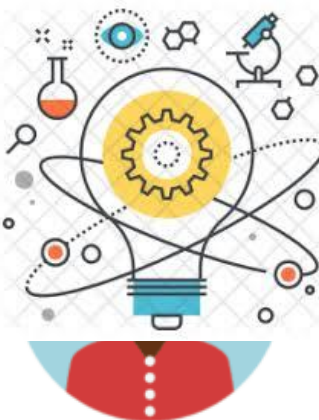


BOOTSRAAP AGGREGATION

BAGGING



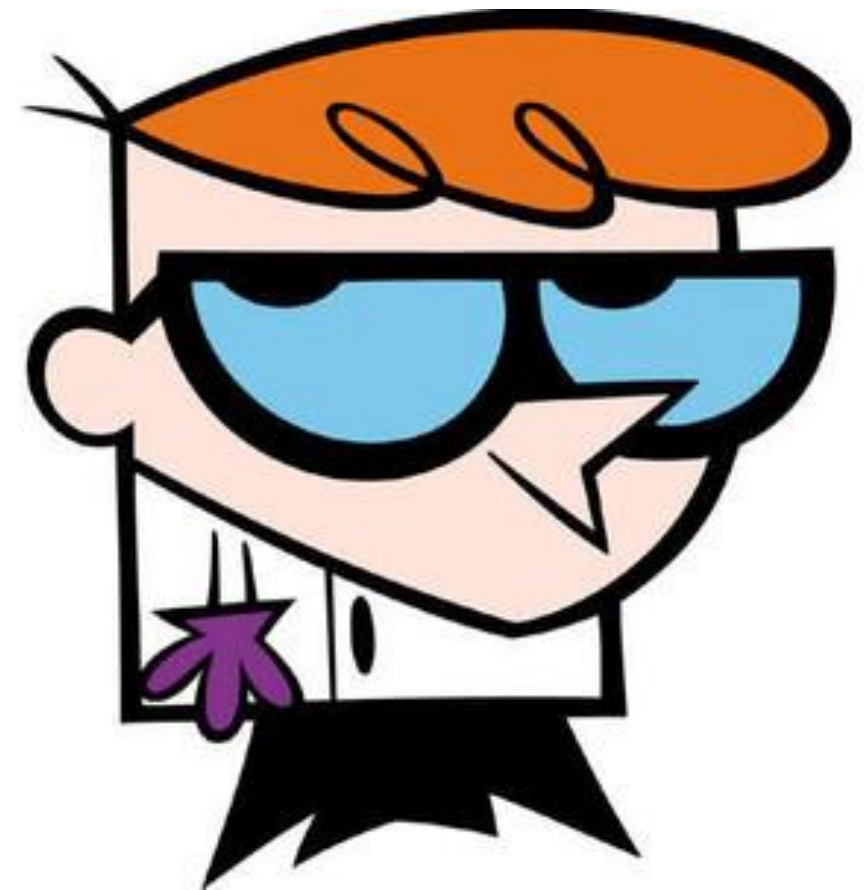
BOOSTING



ENSEMBLE METHODS

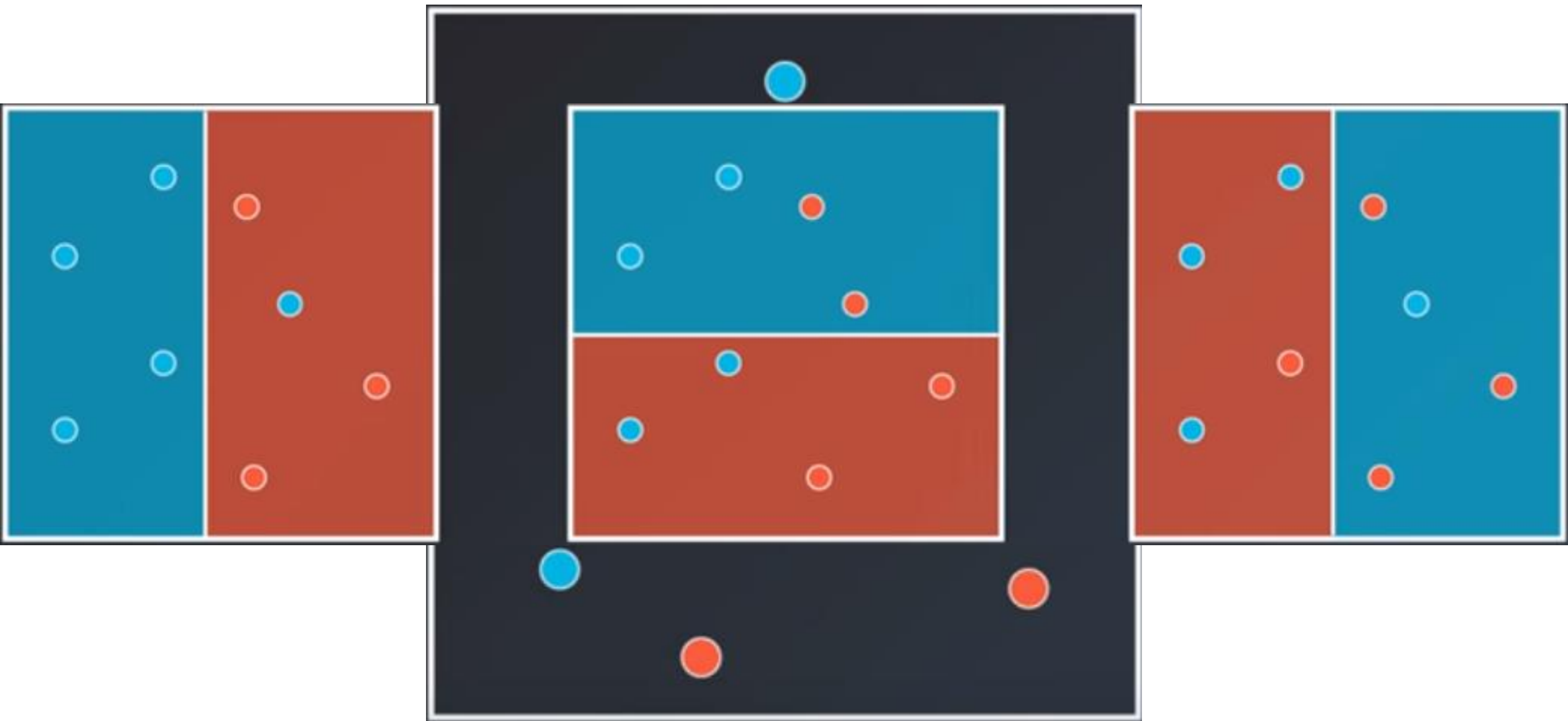


WEAK LEARNERS

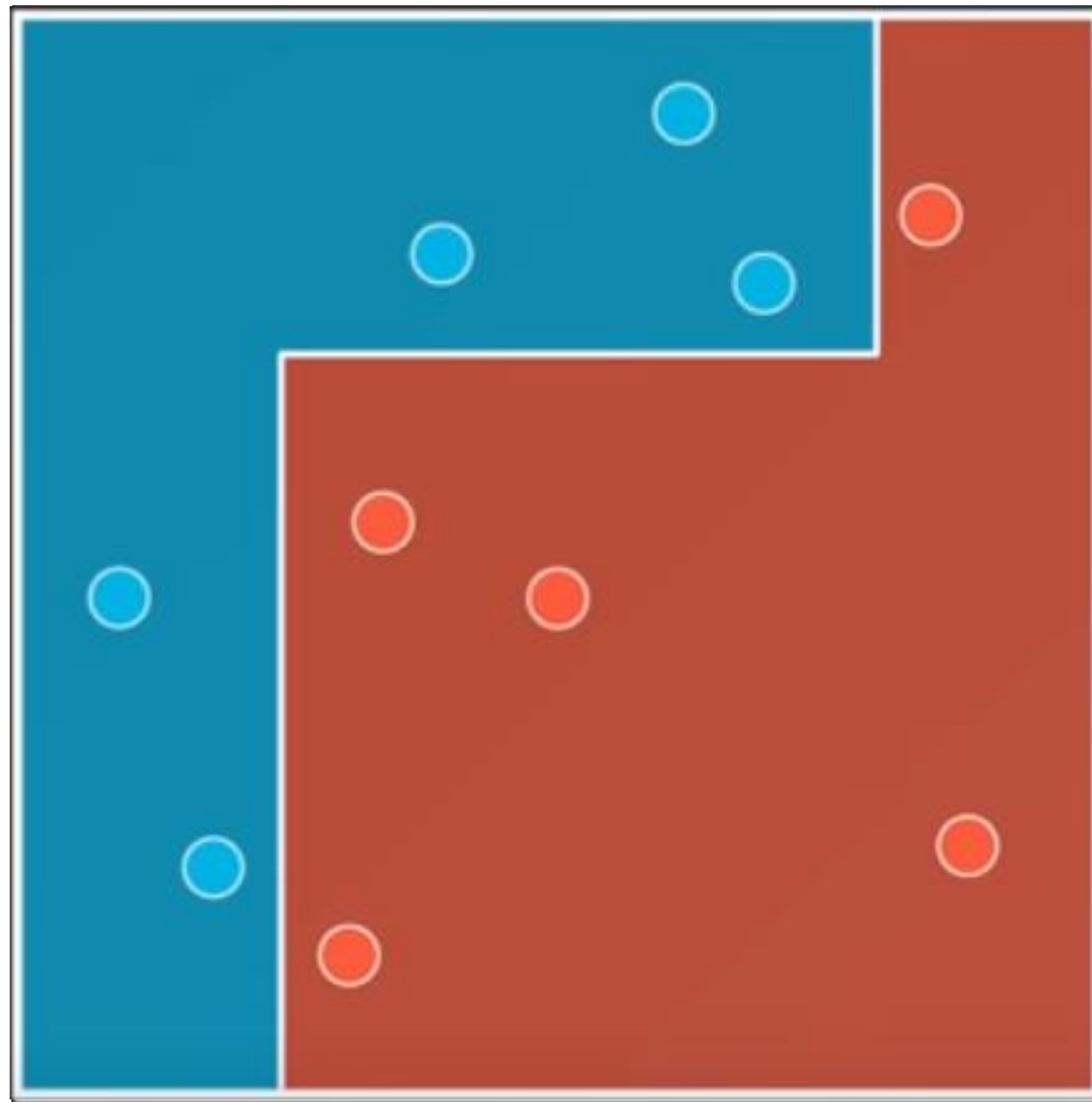


STRONG LEARNER

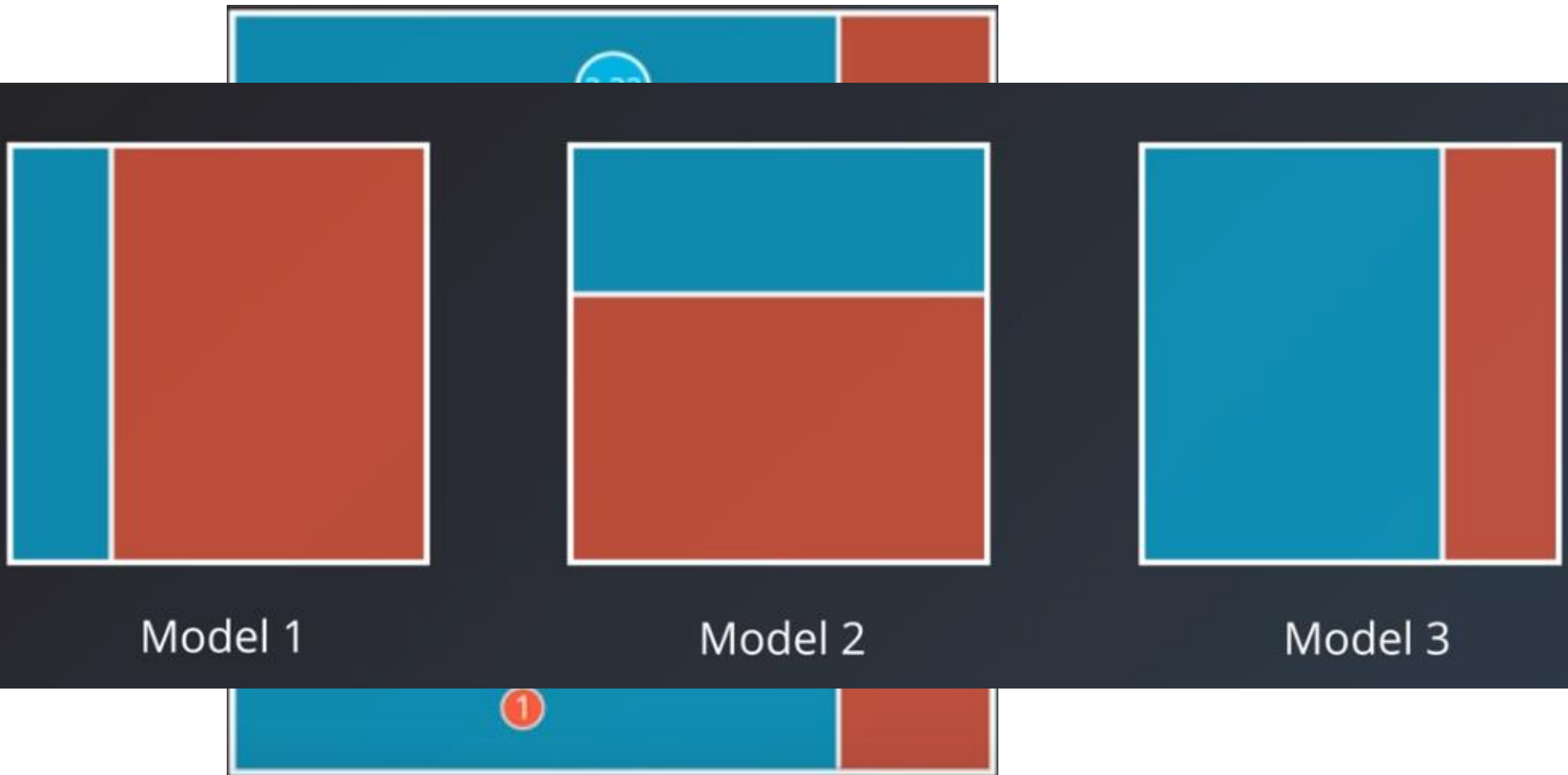
Bagging Explained



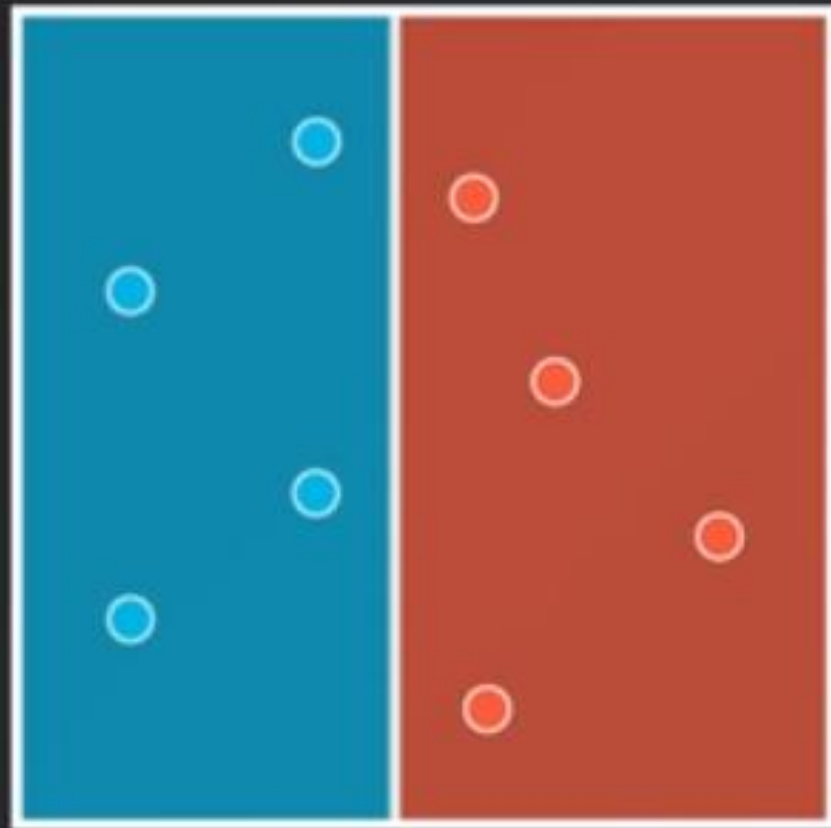
Bagging Explained



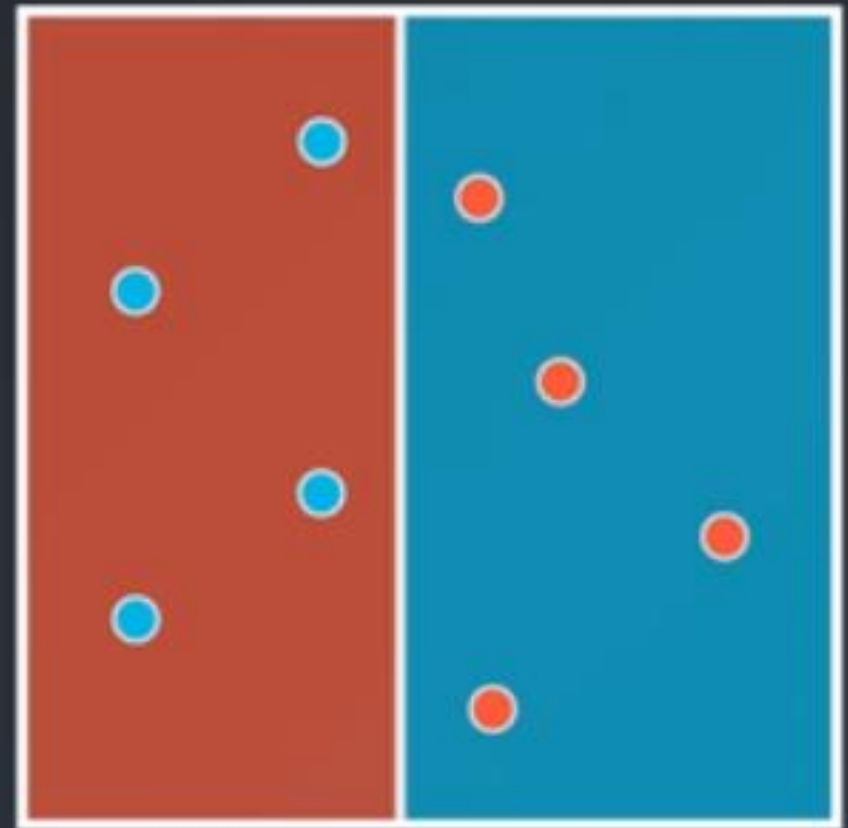
Boosting Explained (Adaboost)



Boosting Explained (Adaboost)

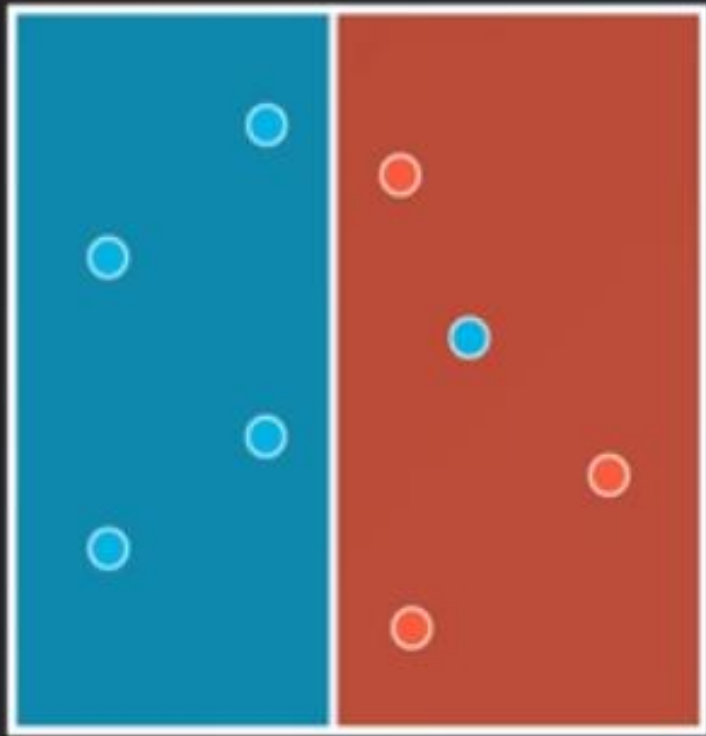


$$\ln \left(\frac{8}{0} \right) ?$$
$$\infty$$

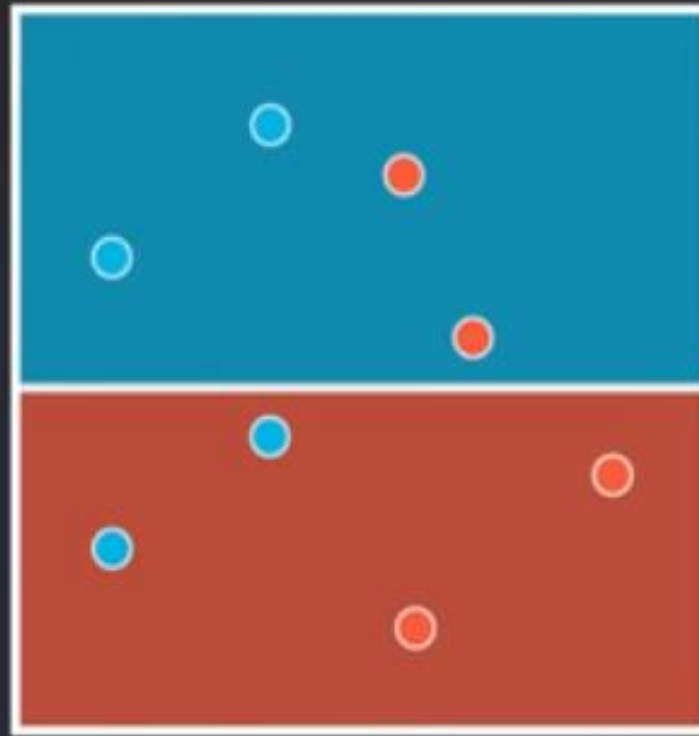


$$\ln \left(\frac{0}{8} \right) ?$$
$$-\infty$$

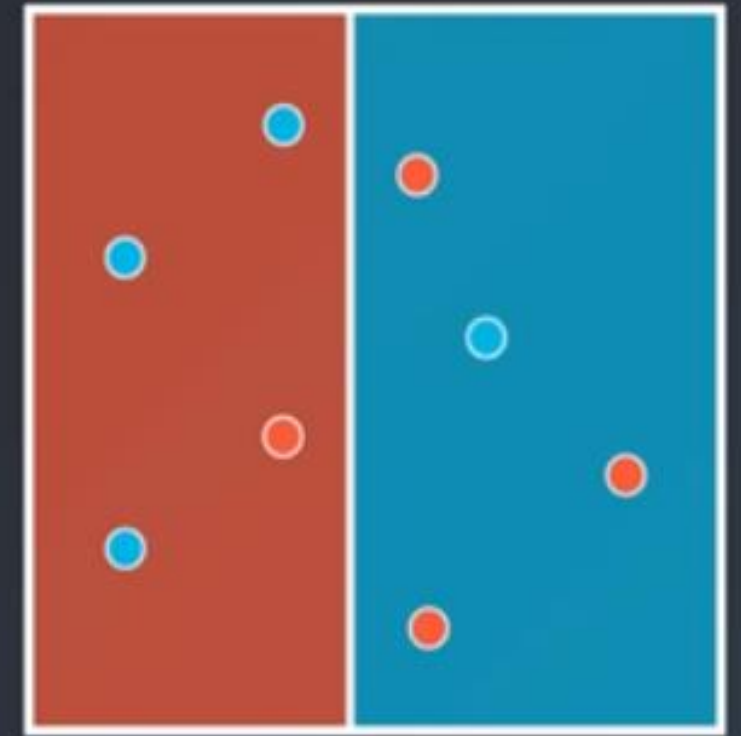
Boosting Explained (Adaboost)



$$\ln \left(\frac{7}{1} \right) = 1.95$$



$$\ln \left(\frac{4}{4} \right) = 0$$



$$\ln \left(\frac{2}{6} \right) = -1.099$$

Boosting Explained (Adaboost)



Correct: 19
Incorrect: 3

$$weight = \ln \left(\frac{19}{3} \right) = 1.84$$

Boosting Explained (Adaboost)



Boosting Explained (Adaboost)

