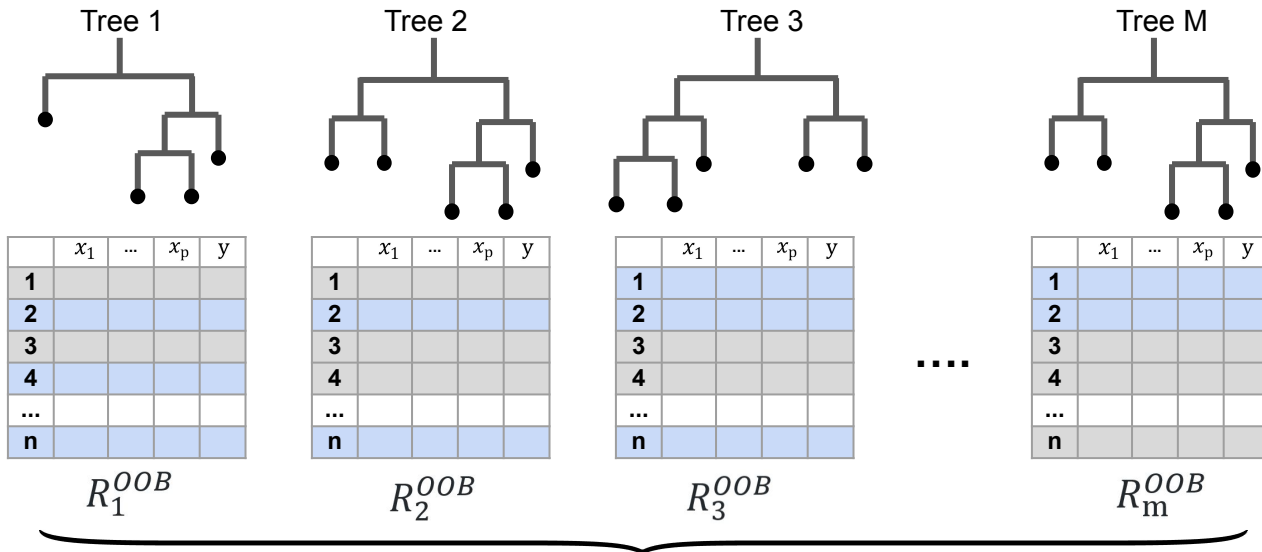


$$R_m^{OOB} = \frac{1}{|OOB_m|} \sum_{i \in OOB_m} L(y^{(i)}, \hat{y}_m^{(i)})$$



$$R_{emp}^{OOB} = \frac{1}{M} \sum_{m=1}^M R_m^{OOB}$$

In-bag observations, used to build the trees {Remember: the same observation can enter the in-bag sample more than once}

out-of-bag observations(OOB_m), used to evaluate prediction performance (R_m^{OOB})