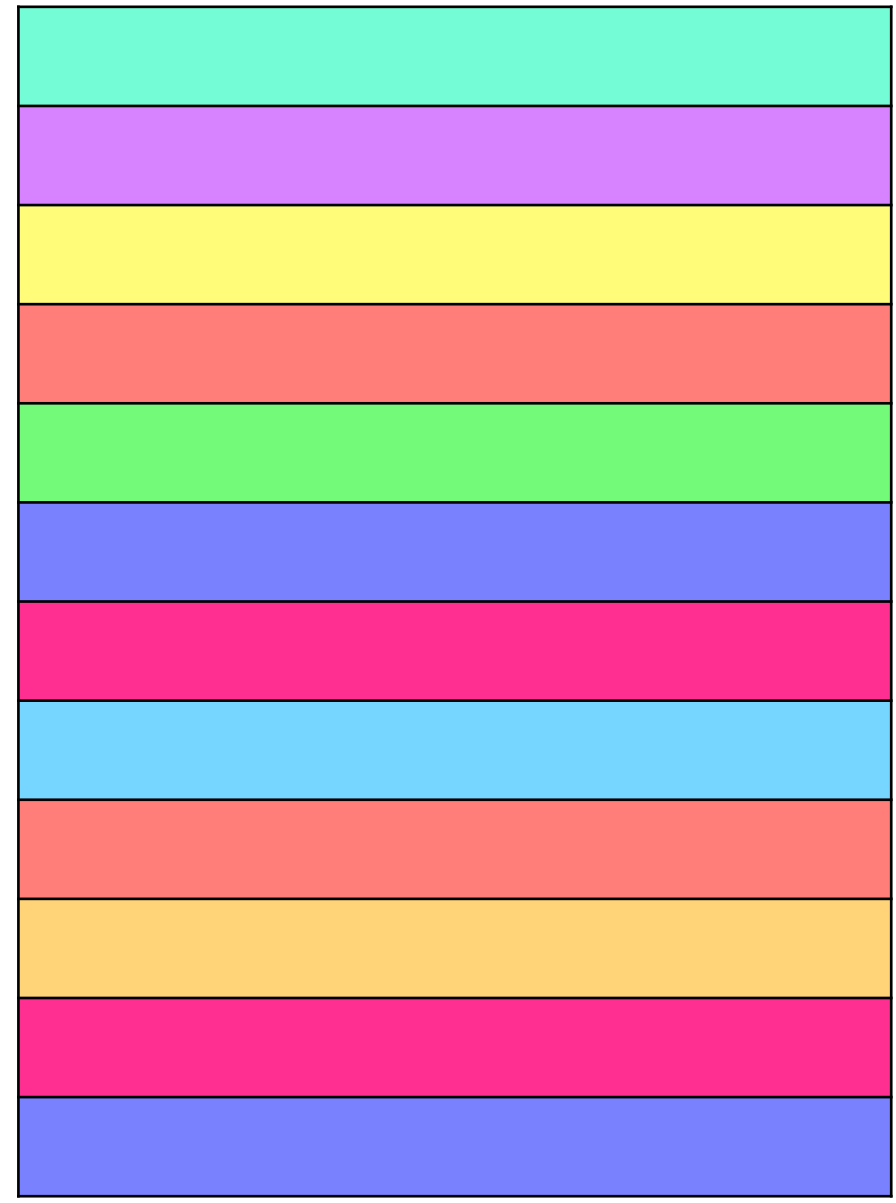
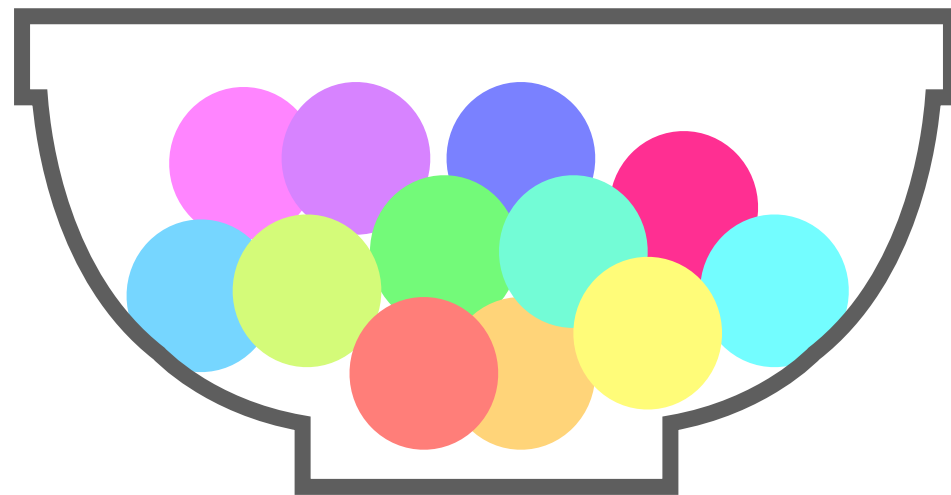


Bagging (Bootstrap Aggregating)

- **Bootstrap:**
 - generate multiple samples of training data via bootstrapping
 - train a full decision tree on each sample of data
- **Aggregate:**
 - given an input, we output the averaged outputs of all the models for that input
- Works with **the rows** of the data



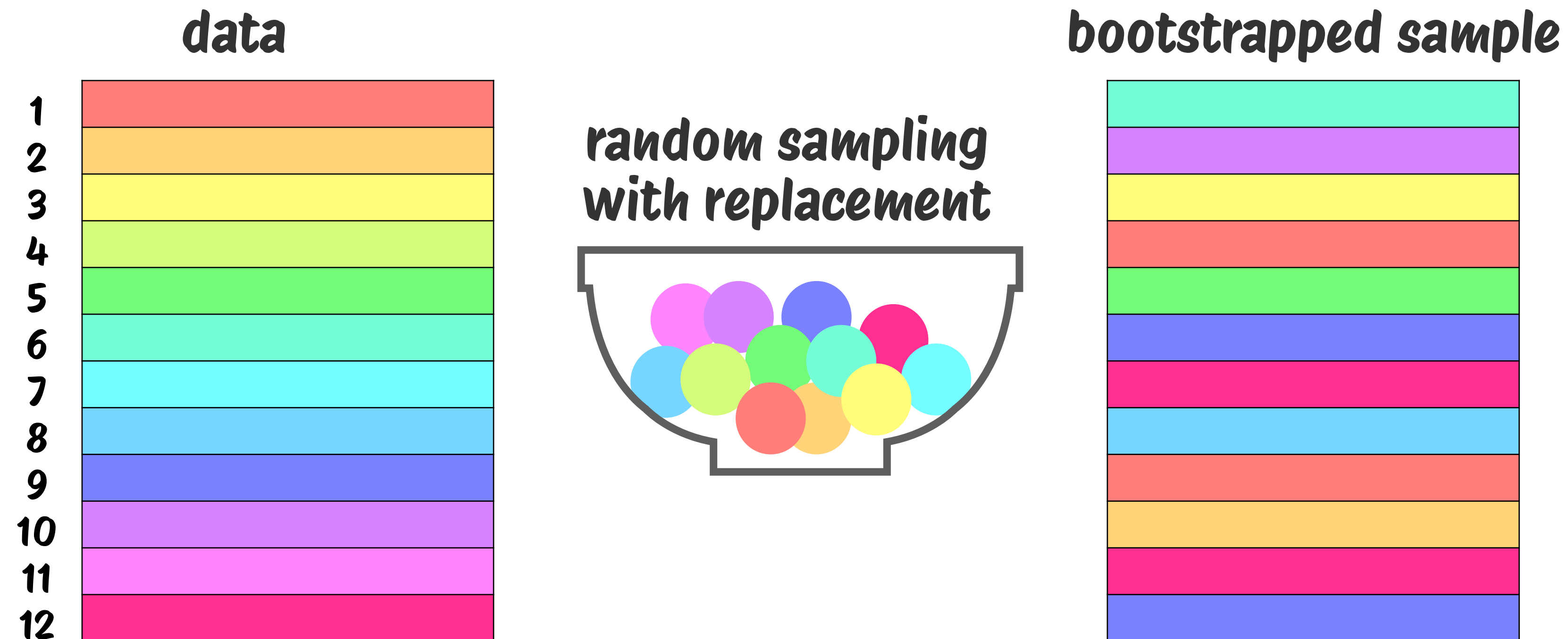
data

bootstrapped sample

random sampling
with replacement

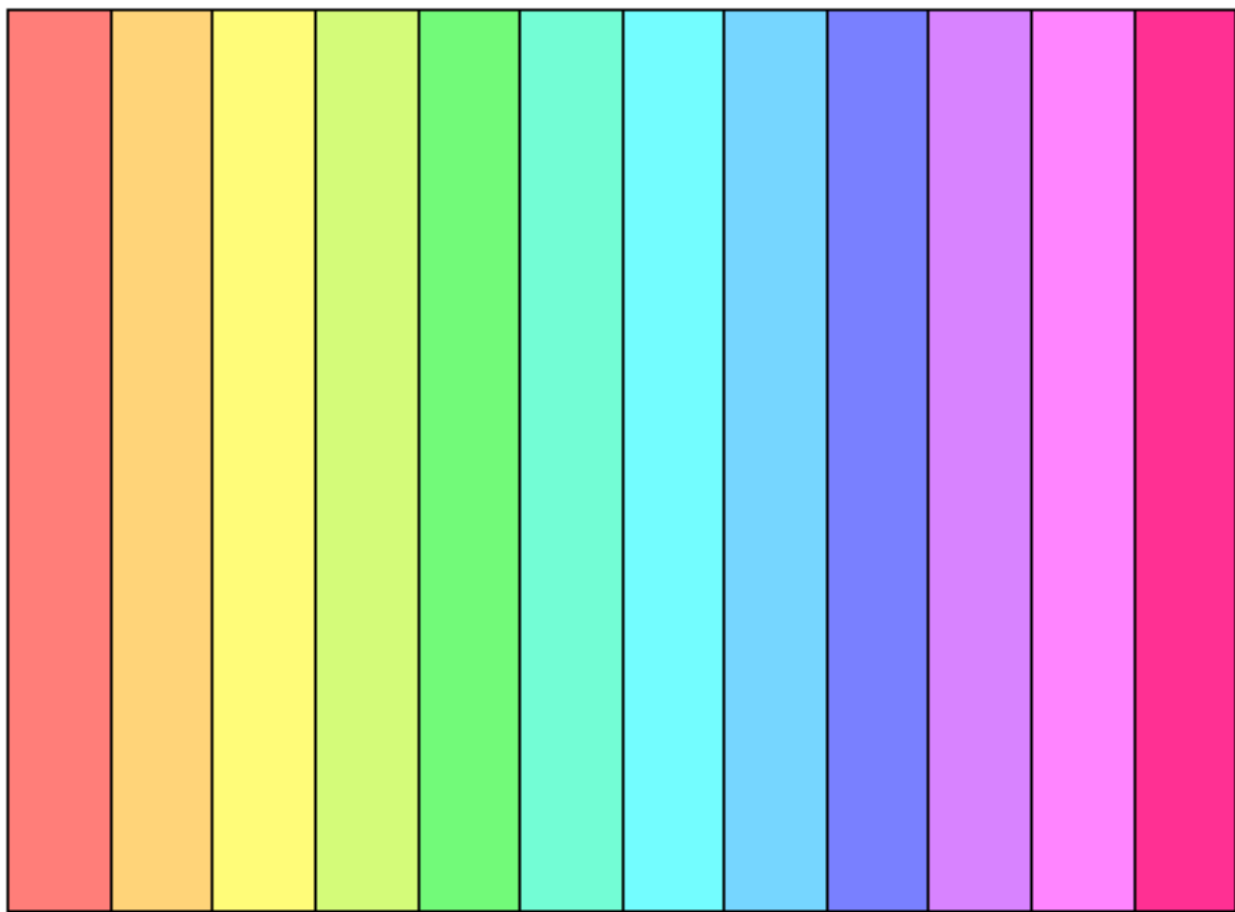
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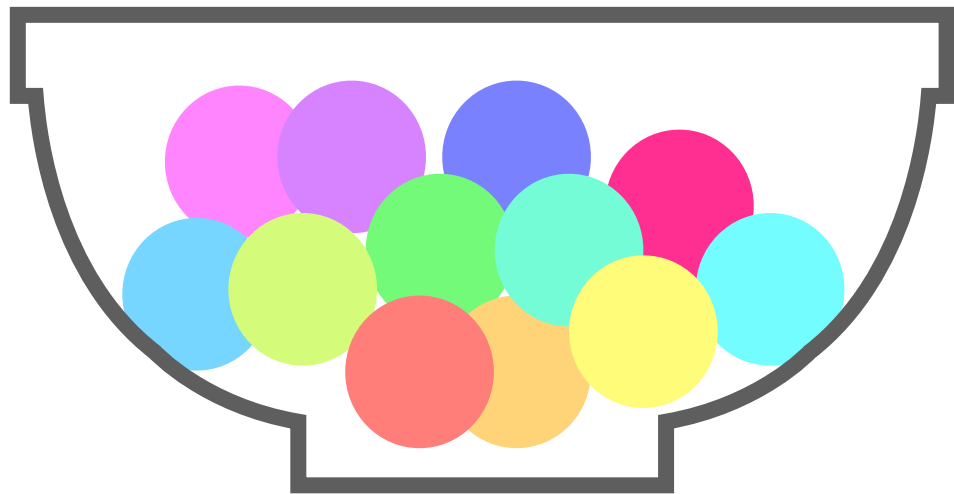


Random Feature Selection

data



**random sampling
without replacement**



feature selected sample

