# Bagging (Bootstrap Aggregating)

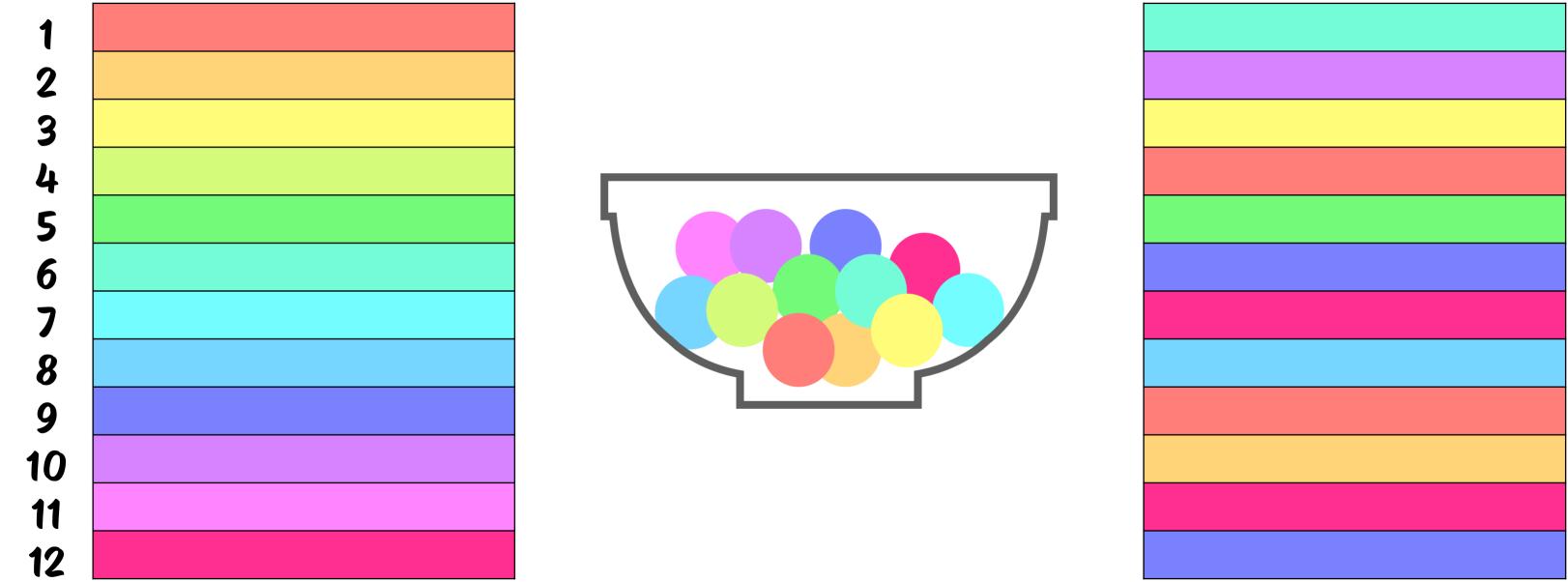
 train a full decision tree on each sample of data given an input, we output the averaged outputs of all the models for that input

generate multiple samples of training data via bootstrapping

Bootstrap:

Aggregate:

Works with the rows of the data



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### bootstrapped sample

### random sampling with replacement

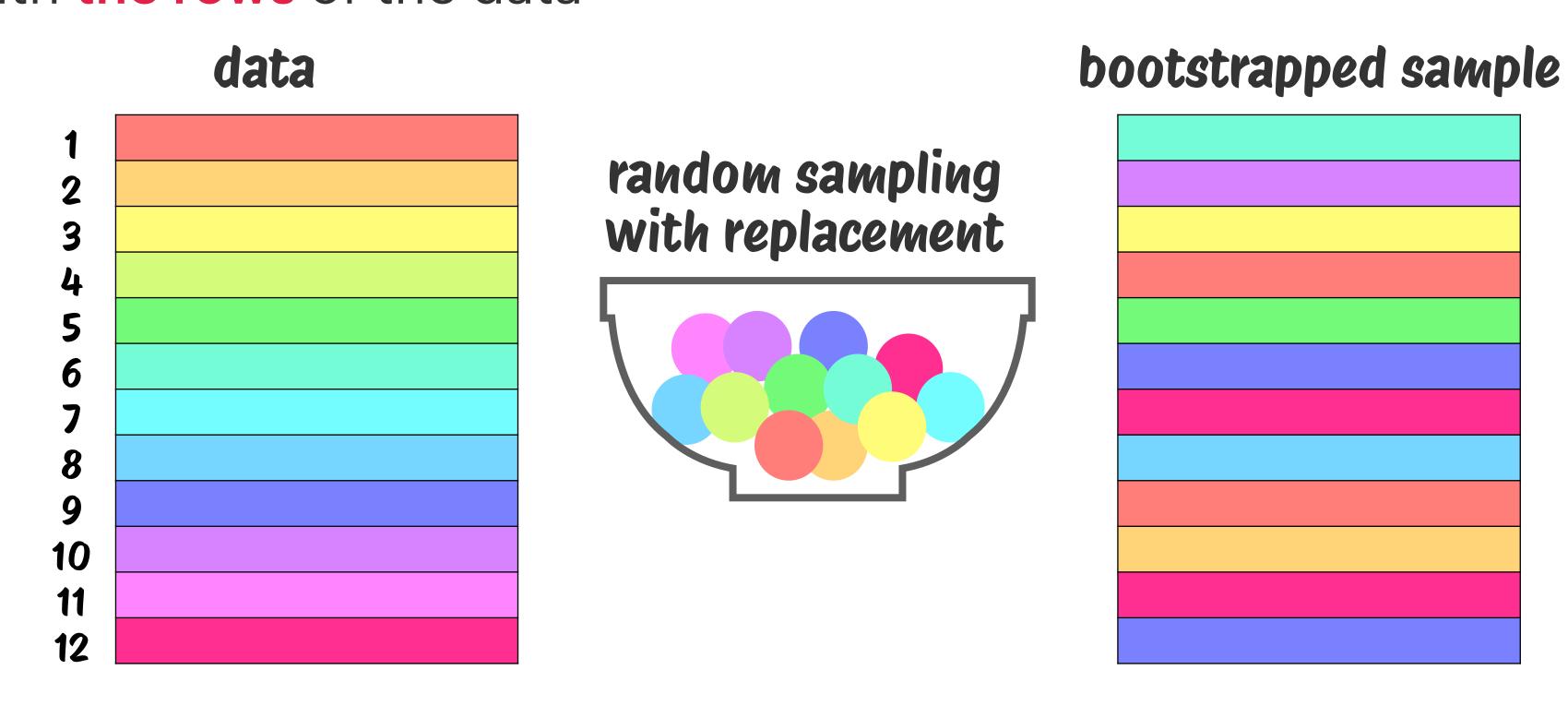
# Bagging (Bootstrap Aggregating)

#### Bootstrap:

- o generate multiple samples of training data via bootstrapping
- o train a full decision tree on each sample of data

### Aggregate:

- o given an input, we output the averaged outputs of all the models for that input
- Works with the rows of the data



### Random Feature Selection

