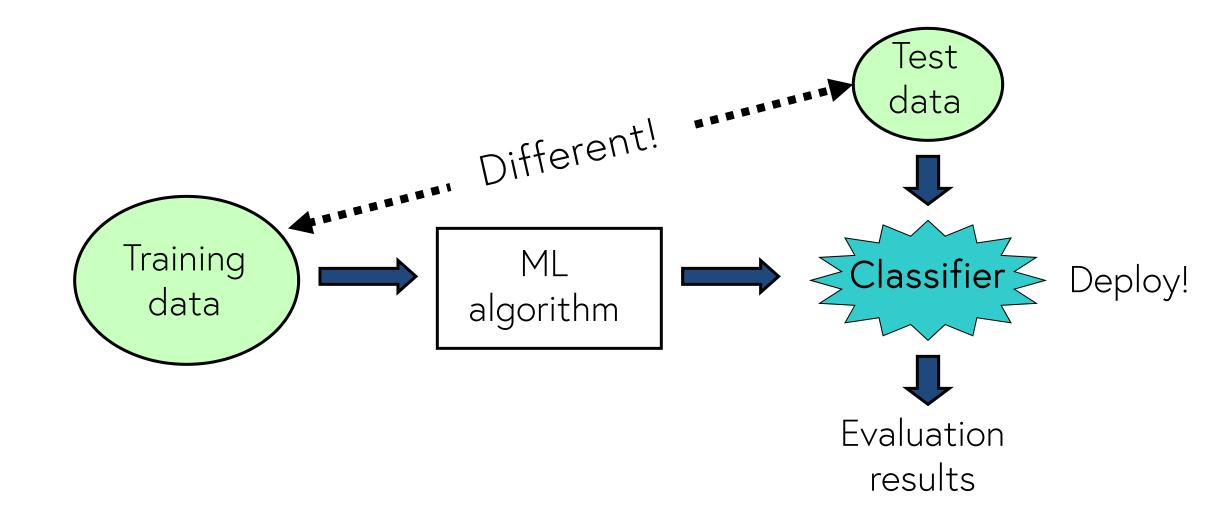
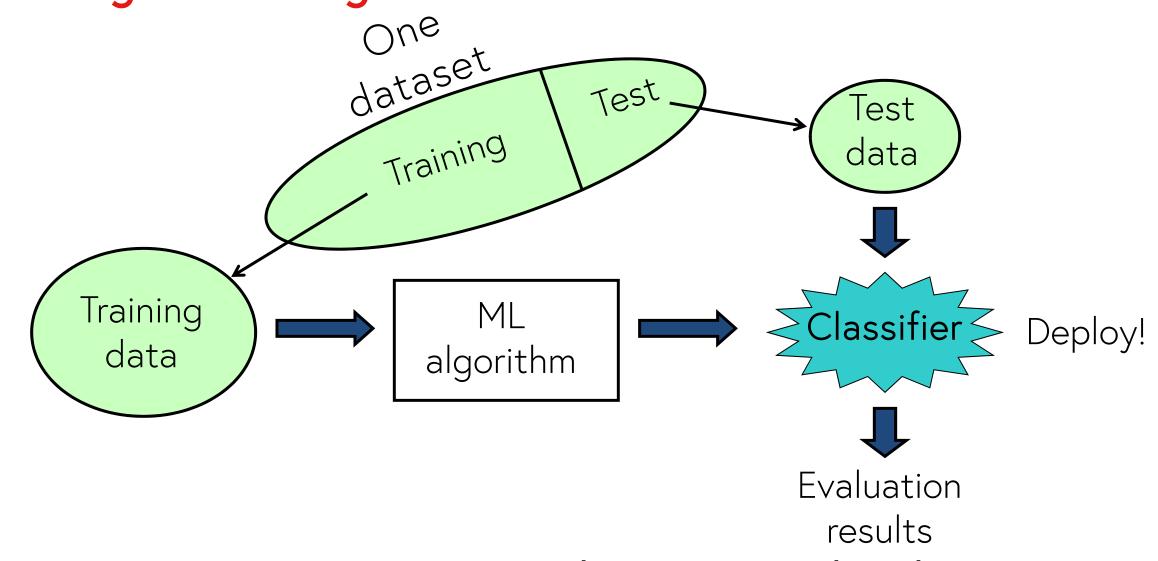


# Data Mining with Weka

Training and testing





Basic assumption: training and test sets produced by independent sampling from an infinite population

#### Use J48 to analyze the segment dataset

- Open file segment-challenge.arff
- Choose J48 decision tree learner (trees>J48)
- Supplied test set segment-test.arff
- Run it: 96% accuracy
- Evaluate on training set: 99% accuracy
- Evaluate on percentage split: 95% accuracy
- Do it again: get exactly the same result!

- Basic assumption: training and test sets sampled independently from an infinite population
- Just one dataset? hold some out for testing
- Expect slight variation in results
- ... but Weka produces same results each time
- J48 on segment-challenge dataset