

### ***Leave one out cross-validation (LOOCV)***

Suppose we have 5 samples. Then LOOCV involves using 4 samples for training in order to classify/predict the remaining 'test' sample. This is repeated for all possible 'test' samples.

	Classify S1	Classify S2	Classify S3	Classify S4	Classify S5
S1	Testing	Training	Training	Training	Training
S2	Training	Testing	Training	Training	Training
S3	Training	Training	Testing	Training	Training
S4	Training	Training	Training	Testing	Training
S5	Training	Training	Training	Training	Testing

We now have predicted classifications for each of the 5 samples, and can look at the accuracy, recall, etc.