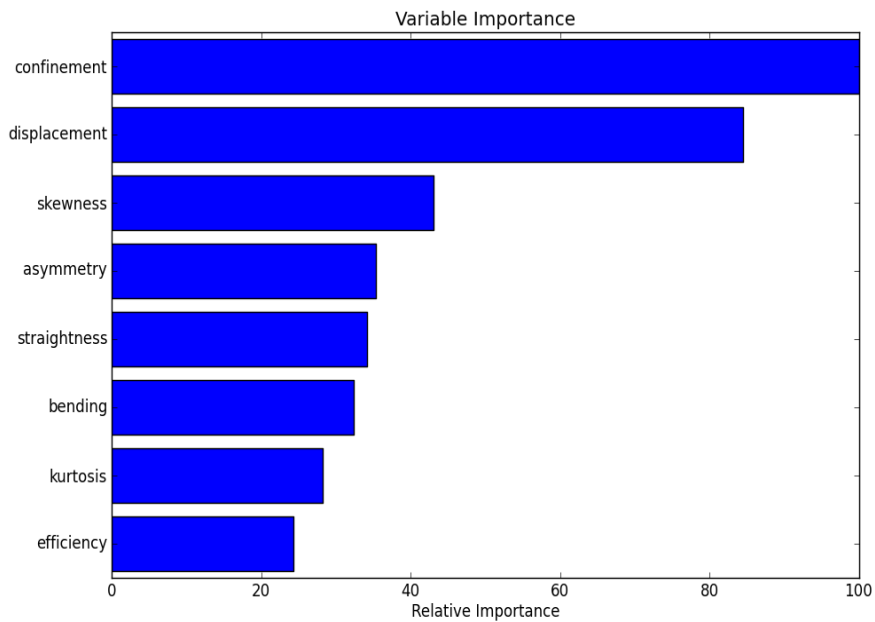


"Confined" **"Not Confined"**

anti-CD3 + ICAM1

Stability index: 0.62

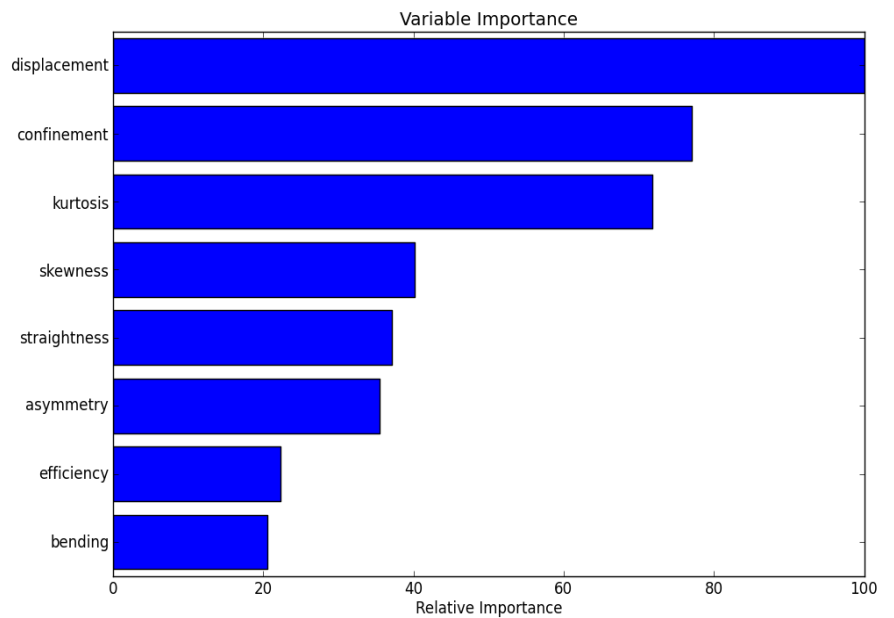
Classifier	CV Accuracy
SVM	93.2%
Decision Tree	90.1%
Gradient Boosting	97.3%



anti-CD3 + ICAM1 + CCL21

Stability index: 0.29

Classifier	CV Accuracy
SVM	93.8%
Decision Tree	90.2%
Gradient Boosting	97.1%



- ✓ Extract features from cell tracks
 - ✓ Find a suitable representation for machine learning on labeled cell tracks
 - ✓ Train high performance classifiers which can recapitulate Vivek's labeling
 - ✓ Begin to understand how different experimental preparations manifest in the learning task
-
- ❑ Develop a labeled data set which pits the algorithms against the underlying biological question of interest
 - ❑ Move beyond automated labeling of cell tracks as the only application of machine learning. Answering a scientific question > crafting a software tool