

# Practical Considerations in Machine Learning

# Overfitting

- ▶ Overfitting has occurred when your training error decreases and your test error increases.
- ▶ The primary cause of overfitting is noise in the data set.
- ▶ More complex models are more likely to overfit.

# Regularization

Constraining the model to prevent overfitting.

# Validation

The most important use of validation is for model selection.

# Cross-Validation?

A resampling technique

# Occam's Razor

# Sampling Bias

# Data Snooping