**MACHINE LEARNING:**

**Basics:**

Goal is to find ways to learn from data

Often used when we have data but no analytic solution

Predict what might happen or find patterns

Goal is accurate prediction of test data

Methods should be general purpose and automatic

In practice want to incorporate prior human knowledge and context

Two basic types of machine learning:

Supervised: data has info on the correct output

Unsupervised: no output data at all

**Unsupervised Learning:**

Used to draw inferences from datasets consisting of input data without labeled responses