Your Name	
Your UnetID	

Learning:

In AI Machine Learning is used to recognize patterns in data, or to represent knowledge.

Is intelligence the same thing as knowledge?

Consider a problem of weather prediction. **What features might you consider in a model?**

How are these features represented in a data vector?

Can the features be adjusted, derived, or modified in some way?

The dark side of accuracy:
How many degrees of freedom can you expect to learn in any given model?

Clustering:

How do you choose K ?

What if you know you have an underlying structure? (5 taxonomic kingdoms, or placing students into 8 different dorms?)

What if you don't know anything about the structure?