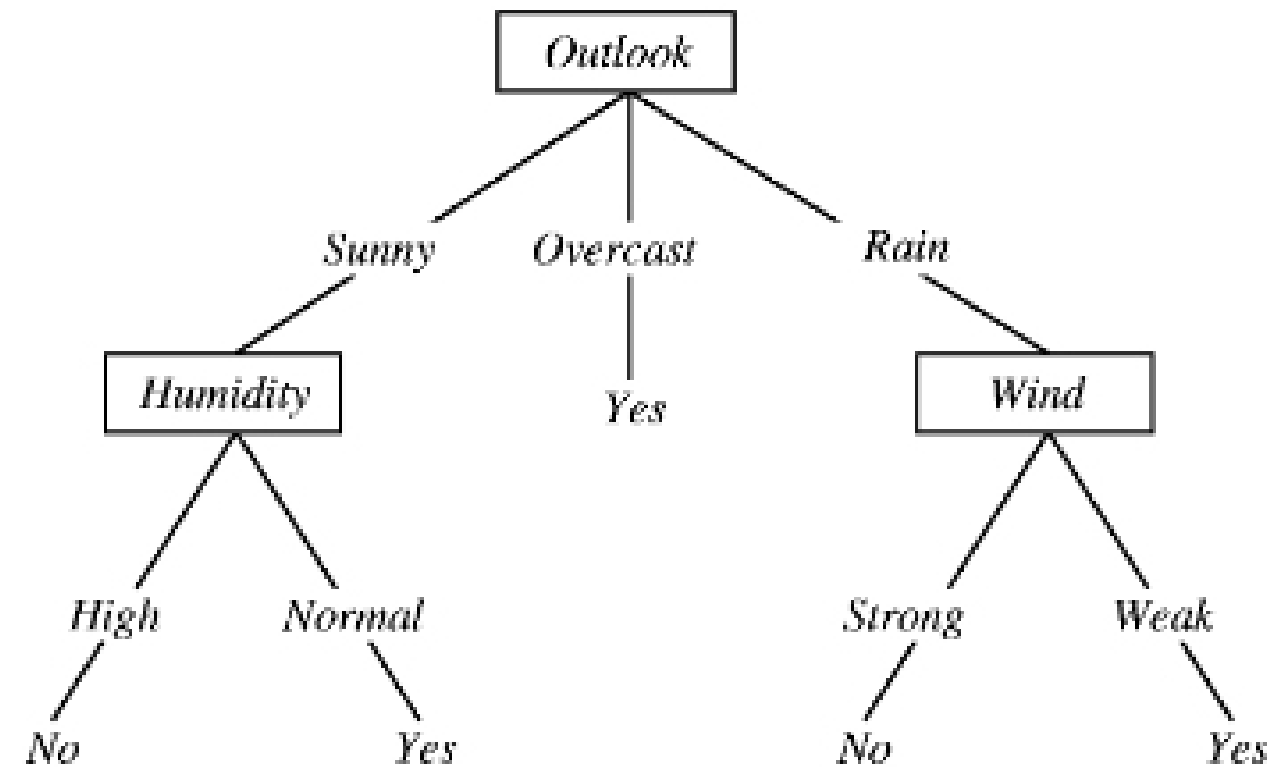

Decision Tree Learning

Chapter 18.3

Decision Trees

- One of the most widely used and practical methods for inductive inference
- Approximates discrete-valued functions (including disjunctions)
- Can be used for classification

Decision Tree



- A decision tree can represent a disjunction of conjunctions of constraints on the attribute values of instances.
 - Each path corresponds to a conjunction
 - The tree itself corresponds to a disjunction

If (O=Sunny AND H=Normal) OR (O=Overcast) OR (O=Rain AND W=Weak)
then YES