

Lazy and Eager Learning

Lazy: wait for query before generalizing

- k -NEAREST NEIGHBOR, Case based reasoning

Eager: generalize before seeing query

- Radial basis function networks, ID3, Backpropagation, NaiveBayes, ...

Does it matter?

- Eager learner must create global approximation
- Lazy learner can create many local approximations
- if they use same H , lazy can represent more complex fns (e.g., consider $H =$ linear functions)