Pattern Recognition

Calla and Nora

Nearest Neighbor
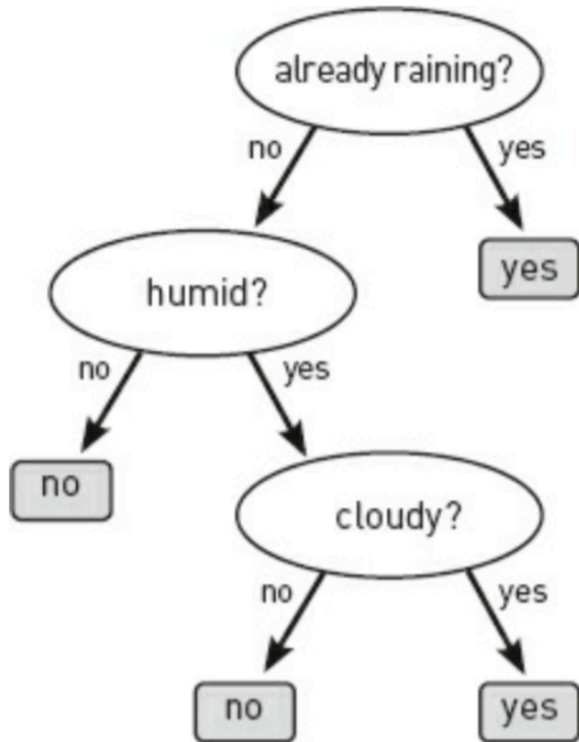
K-th Nearest Neighbor

Database (60,000 images)

nearest neighbor

query

(6% difference)

(21% difference)
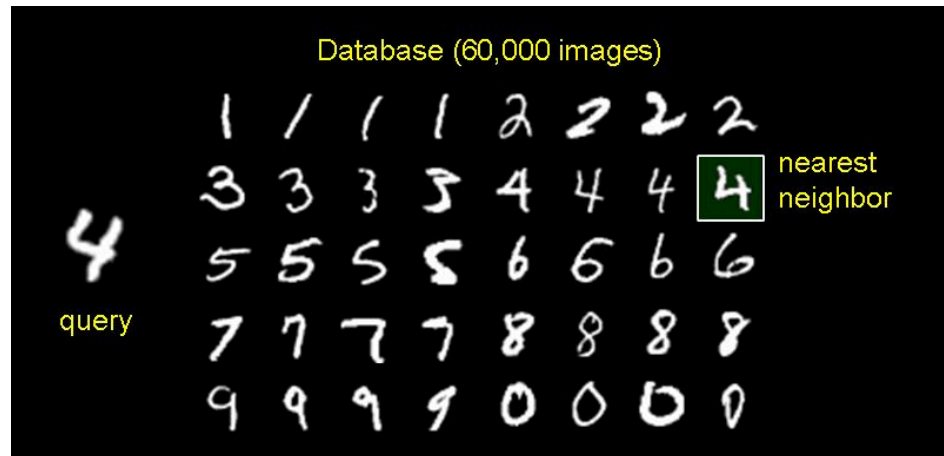
Decision Trees

Neural Networks

inputs (yes = 1, no = 0)

already raining?

humid?

cloudy?

neurons with thresholds

threshold = 1

threshold = 2

output (yes = 1, no = 0)

take umbrella?
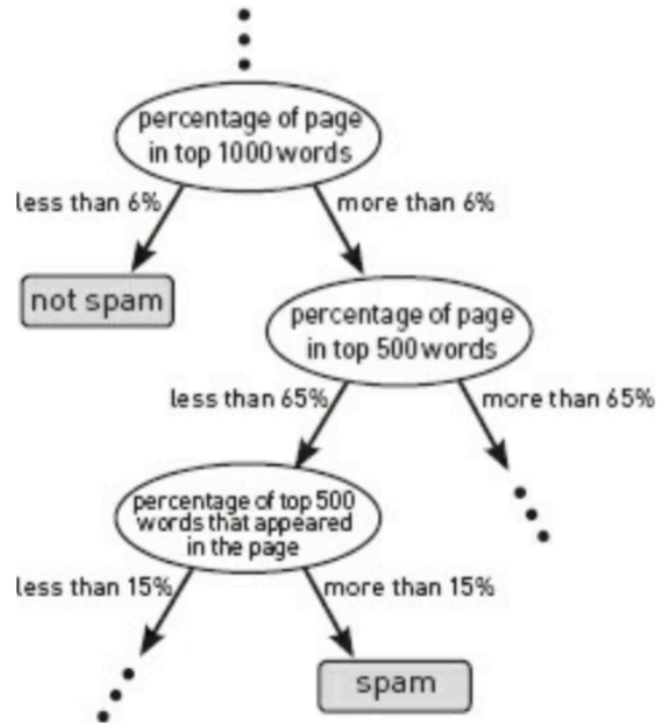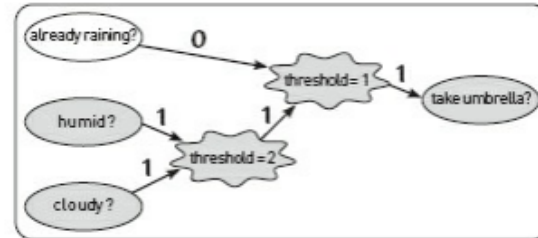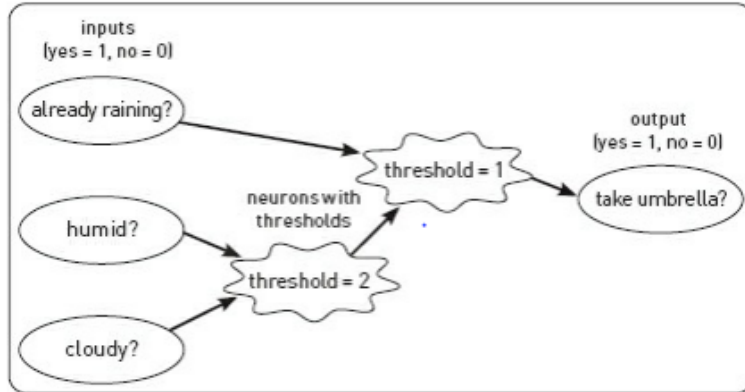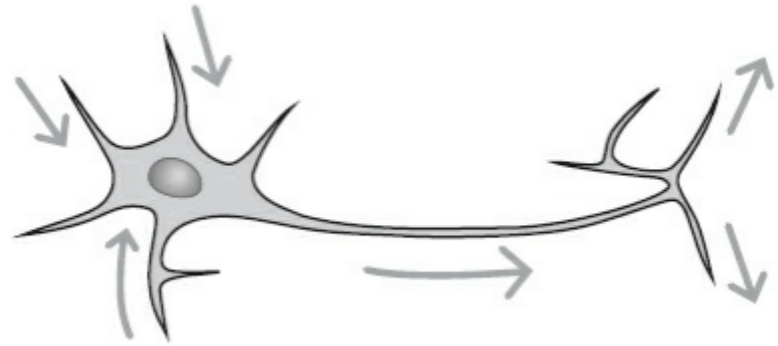
humid and cloudy, but not raining
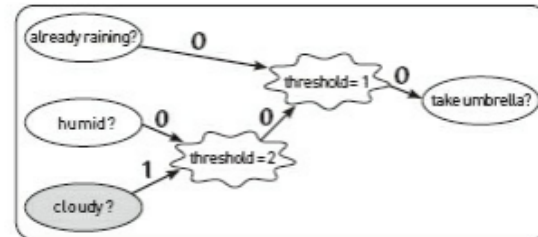
cloudy, but neither humid nor raining