

Decision Trees

Consider the following data set. Use information theory to design a decision tree that classifies people according to whether they are a “cat-person” or a “dog-person”.

#	Introvert	Stylish	Has-Mice	Category
1	T	T	T	Cat-person
2	T	T	F	Cat-person
3	F	F	T	Dog-person
4	T	F	F	Dog-person
5	T	F	T	Cat-person
6	F	T	F	Dog-person
7	T	T	F	Cat-person
8	F	F	T	Dog-person