

MACHINE LEARNING

PART 1: SUPERVISED LEARNING METHODS

DECISION TREES AND RULES

LEARNING OF DECISION TREES: ID3

- ID3 (Iterative Dichotomiser, Quinlan, 1980)
- Based on GLS (classification)
 - only binary attributes
 - heuristic to decide what attribute to choose in each node of the tree
- Set of techniques with commercial success
- Generate decision trees from training examples
- Idea: find the simplest tree that best separates the examples
- Use a heuristic based on entropy to choose the attributes

EXAMPLE

Instance	Account opened	Est. amount spent	Residence (city)	Last purchase	Class
	A_1	A_2	A_3	A_4	
1	Y	Y	Y	Book	Y/N
2	Y	Y	Y	CD	Y/N
3	Y	Y	Y	Book	Y/N
4	Y	Y	Y	Book	Y/N
5	Y	Y	Y	Book	Y/N
6	Y	Y	Y	Book	Y/N
7	Y	Y	Y	Book	Y/N
8	Y	Y	Y	Book	Y/N

DECISION TREE EXAMPLE



STRATEGY OF ID3



ALGORITHM

1. Select an attribute A_i that maximises the information gain $G(A_i)$
2. Create a node for such attribute with as many successors as different values the attribute has
3. Distribute the training examples in the successors, using the value for attribute A_i
4. For each successor: if there's only examples of one class C_k , then label the node with C_k ; otherwise, call ID3 with a table made up of the examples of the node, erasing the column of attribute A_i

Machine Learning Exam Solution

Peter Flach



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