MACHINE LEARNING

PART 1: SUPERVISED LEARNING METHODS

DECISION TREES AND RULES

LEARNING OF DECISION TREES: ID3

- **ID3** (Iterative Dichotomizer, Quinlan, 1986)
- Based on CLS (classification)
  - only binary attributes
  - heuristics 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 separate the examples
- Use a heuristic based on **entropy** to choose the attributes

EXAMPLE

Instance	Access point A_1	Cut-amount spent A_2	Location (area) A_3	Last purchase A_4	Class
1	0	0	0	Book	VIP
2	0	0	0	CD	Regular
3	0	0	0	Book	VIP
4	0	0	0	Book	VIP
5	0	0	0	Book	Regular
6	0	0	0	Book	Regular

DECISION TREE EXAMPLE

STRATEGY OF ID3

ALGORITHM

1. Select an attribute Ai that **maximizes the information gain** G(Ai)
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 Ai
4. For each successor: if there's only examples of one class Ck, then label the node with Ck
   otherwise, call ID3 with a table made up of the examples of the node, erasing the column of attribute Ai

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WJ Hussar

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Table of Contents Machine Learning Exam Solution

1. Understanding the eBook Machine Learning Exam Solution
    - The Rise of Digital Reading Machine Learning Exam Solution
    - Advantages of eBooks Over Traditional Books
2. Identifying Machine Learning Exam Solution
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Machine Learning Exam Solution
    - User-Friendly Interface
4. Exploring eBook Recommendations from Machine Learning Exam Solution
    - Personalized Recommendations
    - Machine Learning Exam Solution User Reviews and Ratings
    - Machine Learning Exam Solution and Bestseller Lists

5. Accessing Machine Learning Exam Solution Free and Paid eBooks
    - Machine Learning Exam Solution Public Domain eBooks
    - Machine Learning Exam Solution eBook Subscription Services
    - Machine Learning Exam Solution Budget-Friendly Options
6. Navigating Machine Learning Exam Solution eBook Formats
    - ePub, PDF, MOBI, and More
    - Machine Learning Exam Solution Compatibility with Devices
    - Machine Learning Exam Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Machine Learning Exam Solution
    - Highlighting and Note-Taking Machine Learning Exam Solution
    - Interactive Elements Machine Learning Exam Solution
8. Staying Engaged with Machine Learning Exam Solution
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Machine Learning Exam Solution
9. Balancing eBooks and Physical Books Machine Learning Exam Solution
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Machine Learning Exam Solution
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Machine Learning Exam Solution
    - Setting Reading Goals Machine Learning Exam Solution
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Machine Learning Exam Solution
    - Fact-Checking eBook Content of Machine Learning Exam Solution
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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