

Data Mining 資料探勘

Project 2

Classification

□ Goal

- Understand what classification systems do and the difference between the real behavior of the classification model and observed data
- Description
 - Construct a classification model to observe the difference between real 'right' data and modeled data
- Due: 11/14 9am



Flow

- Step 1: Design a set of rules to classify data, e.g., classify students with good performance.
 - You should design k features/attributes for your problems first.
 - Use 'absolutely right' rules to generate your positive and negative data (the number of data = M)
- Step 2: Use the data generated in Step 1 to construct your classification model
 - Decision tree is basic requirement, you can add more classification models.
- Step 3: Compare the rules in the decision tree from Step
 2 and the rules you used to generate your 'right' data
- Step 4: Discuss anything you can



Example: "How to select a good apple?"

- Your "absolute right" rule (R)
 - Color: dark red
 - Knock voice: sharp
 - Head color: green
 - Weight: medium (hidden)
- Use (R) to generate your data
 - Add more attributes (e.g, price, #dark_spot, ..., 20+ is better)
- Use classifiers to classify your data
 - Decision tree
 - Naïve Bayes
 - **-** ...

