Output: knowledge representation

Most of these slides (used with permission) are based on the book:

Data Mining: Practical Machine Learning Tools and Techniques by I. H. Witten, E. Frank, M. A. Hall, and C. J. Pal

Output: Knowledge representation

- Tables
- Linear models
- Trees
- Rules
- Classification rules
- Association rules
- Rules with exceptions
- More expressive rules
- Instance-based representation
- Clusters



































































Rules with exceptions					
 Idea: allow rules to have exceptions Example: rule for iris data If petal-length ≥ 2.45 and petal-length < 4.45 then Iris-versicolor 					
•	New Instanc	e:	Petal Length	Potal Width	Type
	5.1	3.5	2.6	0.2	?
Modified rule:					
<pre>If petal-length ≥ 2.45 and petal-length < 4.45 then Iris-versicolor EXCEPT if petal-width < 1.0 then Iris-setosa</pre>					
					34



























