

PRISM example:

outlook	temperature	humidity	wind	play?
Sunny	hot	hi	F	No
Sunny	hot	hi	T	No
Overcast	hot	hi	F	Yes
Rainy	mild	hi	F	Yes
Rainy	cool	normal	F	Yes
Rainy	cool	normal	T	No
Overcast	cool	normal	T	Yes
Sunny	mild	hi	F	No
Sunny	cool	normal	F	Yes
Rainy	mild	normal	F	Yes
Sunny	mild	normal	T	Yes
Overcast	mild	hi	T	Yes
Overcast	hot	normal	F	Yes
Rainy	mild	hi	T	No

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data
S
play=no.

PRISM: For each value of the class variable, call it v
create rules of the form if ? then class = v .

Example for play=no (Or, play=yes, just start over and follow same procedure)

Want if ? then play=no.

Start with single features:

outlook = S 3/5 correct

= O 0/4

= R 2/5.

temp = hot 2/4

= mild 2/6

= cool 1/4

humid = high 4/7

= normal 1/7

wind = T 3/6

= F 2/8.



choose rule with highest accuracy

i.e. outlook = S.

if tie, choose one with higher
DENOMINATOR (coverage)