

Implementing Mitchell's Candidate Elimination Algorithm

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Abstract

This report

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S: { astigmatic: null, tear_prod: null, age: null, prescription: null }
G: { astigmatic: undefined, tear_prod: undefined, age: undefined, prescription: undefined }

Example: { :astigmatic=>:no, :tear_prod=>:reduced, :age=>:young, :prescription=>:myope } ==> none
Prior Classification: unknown
After Classification: negative

S: { astigmatic: null, tear_prod: null, age: null, prescription: null }
G:
{ astigmatic: yes, tear_prod: undefined, age: undefined, prescription: undefined }
{ astigmatic: undefined, tear_prod: normal, age: undefined, prescription: undefined }
{ astigmatic: undefined, tear_prod: undefined, age: middle, prescription: undefined }
{ astigmatic: undefined, tear_prod: undefined, age: old, prescription: undefined }
{ astigmatic: undefined, tear_prod: undefined, age: undefined, prescription: hyper }

Example: { :astigmatic=>:no, :tear_prod=>:normal, :age=>:young, :prescription=>:myope } ==> soft
Prior Classification: unknown
After Classification: positive

S: { astigmatic: no, tear_prod: normal, age: young, prescription: myope }
G: { astigmatic: undefined, tear_prod: normal, age: undefined, prescription: undefined }

Example: { :astigmatic=>:yes, :tear_prod=>:reduced, :age=>:young, :prescription=>:myope } ==> none
Prior Classification: negative
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G: { astigmatic: undefined, tear_prod: normal, age: undefined, prescription: undefined }

Example: { :astigmatic=>:yes, :tear_prod=>:normal, :age=>:young, :prescription=>:myope } ==> hard
Prior Classification: unknown
After Classification: negative

S: { astigmatic: no, tear_prod: normal, age: young, prescription: myope }
G:
{ astigmatic: no, tear_prod: normal, age: undefined, prescription: undefined }
{ astigmatic: undefined, tear_prod: normal, age: middle, prescription: undefined }
{ astigmatic: undefined, tear_prod: normal, age: old, prescription: undefined }
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