

Task 1

Age:

young \rightarrow reduced (4/5)

28-38 \rightarrow normal (3/5)

39+ \rightarrow normal (4/5)

Overall Accuracy = 11/15

Prescription:

farsighted \rightarrow normal (5/7)

nearsighted \rightarrow reduced (5/8)

Overall Accuracy = 10/15

Astigmatism:

no \rightarrow normal (4/7)

yes \rightarrow reduced (4/8)

Overall Accuracy = 8/15

IR: choose age

Test examples:

id	actual	predicted	
16	reduced	reduced	✓
17	normal	reduced	✗
18	reduced	reduced	✓
19	reduced	normal	✗
20	normal	normal	✓
21	normal	normal	✓
22	normal	normal	✓
23	reduced	normal	✗
24	normal	normal	✓

Overall Accuracy = 6/9
= 66.67%

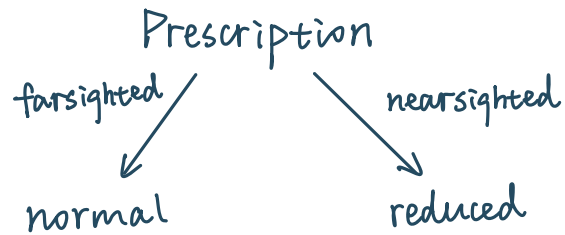
Actual	Predicted	
	reduced	normal
reduced	2	2
normal	1	4

Task 2

Age: goodness = $(11/15) / 3 = 24.4\%$

Prescription: goodness = $(10/15) / 2 = 33.3\%$

Astigmatism: goodness = $(8/15) / 2 = 26.67\%$



For farsighted:

Age:

young \rightarrow normal/reduced (1/2)

28-38 \rightarrow normal/reduced (1/2)

39+ \rightarrow normal (3/3)

Overall accuracy = $5/7$

Goodness = $(5/7) / 2 = 35.7\%$

Astigmatism:

no \rightarrow normal (3/4)

yes \rightarrow normal (2/3)

Overall Accuracy = $5/7$

Goodness = $(5/7) / 2 = 35.7\%$

No. Goodness are the same.

For nearsighted:

Age:

young \rightarrow reduced (3/3)

28-38 \rightarrow normal (2/3)

39+ \rightarrow normal/reduced (1/2)

Overall Accuracy = $6/8$

Goodness = $(6/8) / 2 = 37.5\%$

Astigmatism:

no \rightarrow reduced (2/3)

yes \rightarrow reduced (3/5)

Overall Accuracy = $5/8$

Goodness = $(5/8) / 2 = 31.25\%$

Yes. choose age.

