

Student #	Name:				
Ex	Author	Thread	Length	Where	User
e1	known	new	long	home	skips
e2	unknown	new	short	work	reads
e3	unknown	follow Up	long	work	skips
e4	known	follow Up	long	home	skips
e5	known	new	short	home	reads
e6	known	follow Up	long	work	skips
e7	unknown	follow Up	short	work	skips
e8	unknown	new	short	work	reads
e9	known	follow Up	long	home	skips
e10	known	new	long	work	skips
e11	unknown	follow Up	short	home	skips
e12	known	new	long	work	skips
e13	known	follow Up	short	home	reads
e14	known	new	short	work	reads
e15	known	new	short	home	reads
e16	known	follow Up	short	work	reads
e17	known	new	short	home	reads
e18	unknown	new	short	work	reads
e19	unknown	new	long	work	skips
e20	unknown	follow Up	short	home	skips
e21	unknown	new	short	home	reads
e22	known	follow Up	short	home	reads

Length: Long: {1s,3s,4s,6s,9s,10s,12s}

Error =0 if skip

Short:{2r,5r,7s,8r,11s,13r,14r,15r,16r,17r,18r}
error=2 if read

Total error=2/18

Author:

Known={1s,4s,5r,6s,9s,10s,12s,13r,14r,15r,16r,17r}

Error =6 if skip

UnKnown={2r,3s,7s,8r,11s,18r}

Error= 3 if read. Total error 9/18

Thread:

New:{1s,2r,5r,8r,10s,12s,14r,15r,17r,18r}

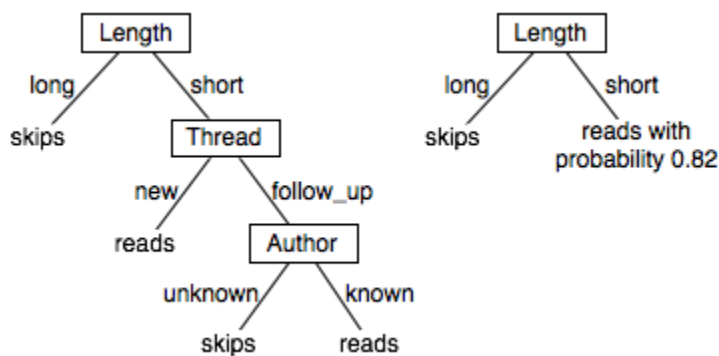
Error=3 if Read

Followup{3s,4s,6s,7s,9s,11s,13r,16r}

Error=2 if skip

Total Error: 5/18

May do Where but Length is best.



1- The root is Length. If you agree show why Length was chosen as **the root**. You can use counting alone, no entropy or information gain.

2- What is the value of UserAction for the last 4 examples: test cases by tracing the left tree.

Q2: We performed a testing of a machine learning model with 200 YES items. The system returned 120 items as YES that includes 100 truly YES and 20 Truly NO.

TP= 100 TN=? FP= 20 FN= 100

Compute the recall, precision and F1 measure for this system/test.

R=100/200= .5. P= 100/120=10/12 = .83 F1= 2*PR/(P+R)=2*.5*.83/1.33=0.624

