Best performance

Condition:

* add rule with other way conjunction
* separate feature frequency computation for different datasets
* use all review sentences
* prune first frequency 1 features
* 1 clause at most one feature except conjunction
* finally prune frequency 3,3,2,3,3 features

performance:

canon:

[[ 75. 23.]

[ 14. 0.]]

precision: 0.842696629213

recall: 0.765306122449

F\_score: 0.802139037433

False positive:

g2 6 choice 7 review 12 photography 4 thing 9 film 4 problem 6 view 5 point 12 shoot 8 shutter 4 one 4 flaw 4 result 4

false negative

dial ['diopter', 'adjustment', 'dial'] ['spot', 'metering'] 4mp lense feel megapixel grain depth lcd automode shape ['white', 'offset'] unresponsiveness casing finish lag lever strap macro body optic

Nikon:

[[ 55. 17.]

[ 6. 0.]]

precision: 0.901639344262

recall: 0.763888888889

F\_score: 0.827067669173

False positive:

model 5 time 4 resolution 5 power 4 thing 4 one 4

false negative:

macro ['auto', 'focus'] ['close-up', 'shooting'] servicing delay touchup redeye lcd download mp autofocus accessory optic ['lense', 'cap'] 8mb firewire

nokia:

[[ 78. 26.]

[ 13. 0.]]

precision: 0.857142857143

recall: 0.75

F\_score: 0.8

False positive:

problem 6 thing 10 hour 3 person 4 work 3 email 5 time 3 year 3 series 3 t610 4 motorola 3 anything 3 people 4

false negative:

infrared pim background screensaver backlight volume t-zone t-mobile csr call vibration message earpiece web ['wireless', 'telephone'] layout ringer durability wallpaper tune calendar ['pc', 'cable'] ['pc', 'suite'] ergonomics ['mms', 'technology'] command ['gprs', 'connection']

mp3:

[[ 152. 46.]

[ 50. 0.]]

precision: 0.752475247525

recall: 0.767676767677

F\_score: 0.76

False positive:

artist 13 title 8 pod 5 bit 5 mp3s 4 apple 4 set 4 complaint 10 something 6 model 4 driver 6 lab 8 ipod 39 gb 5 buy 10 job 4 gig 4 computer 10 piece 7 error 4 review 12 album 12 time 15 genre 6 window 7 transmitter 5 hour 4 library 4 reason 4 choice 4 star 4 day 6 hassle 4 disk 6 track 10 organization 4 style 4 reviewer 8 speaker 4 flaw 7 way 7 version 4 people 17 collection 15 information 5 issue 4 week 4 point 4 card 4 one 6

false negative:

affordability accessory remote ['leather', 'pouch'] ['installation', 'instruction'] earbud ['face', 'plate'] scroll earphone switch setup ['jog', 'dial'] firmware itunes ['pc', 'compatibility'] equipment lcd ['usb', '2.0'] recharger ['fm', 'receiver'] instruction sync backlight bookmark equilizer volume clip stoppage napster top flywheel installation pause id3 fm ['flip', 'switch'] ['wake', 'up'] recording durability appearance alarm clock panel ['freeze', 'up'] ['pop-off', 'face']

dvd:

[[ 86. 26.]

[ 15. 0.]]

precision: 0.851485148515

recall: 0.767857142857

F\_score: 0.807511737089

False positive:

problem 13 everything 9 model 4 lot 4 thing 11 name 4 review 9 week 4 month 4 time 8 sony 4 medium 4 brand 6 something 4 one 6

false negative:

forward rewind finish door smell ['jpeg', 'slideshow'] remote jpeg ['screw', 'tip'] panel shipping svcd s-video usage amazon reliability motor ad-1600 ad-1220 code ['remote', 'layout'] ['silver', 'plate'] ['divx', 'rip'] vcd direction