Web Intelligence and Big Data
Homework 2

# instances	Tweet / Comment	Sentiment
2000	My phone is really **bad** and gives me lots of **trouble**	negative
5000	I really **like** my phone because it helps me **enjoy** life	positive
5000	My new phone is a **pleasure** to use and very **nice**	positive
3000	I **hate** this phone, it is making my life **miserable**	negative

total: 15.000

Positive: 10.000
Negative: 5.000

p(+)=10.000/15.000=0,6666
p(-)=5.000/15.000=0,3333
p(bad|+)=1/10.000=0,0001; p(bad|-)=2.000/5.000=0,40
p(trouble|+)=1/10.000=0,0001; p(trouble|-)=2.000/5.000=0,40
p(like|+)=5.000/10.000=0,5; p(like|-)=1/5.000=0,0002
p(enjoy|+)=5.000/10.000=0,5; p(enjoy|-)=1/5.000=0,0002
p(pleasure|+)=5.000/10.000=0,5; p(pleasure|-)=1/5.000=0,0002
p(nice|+)=5.000/10.000=0,5; p(nice|-)=1/5.000=0,0002
p(hate|+)=1/10.000; p(hate|-)=3.000/5.000=0,6
p(miserable|+)=1/10.000; p(miserable|-)=3.000/5.000=60%

A|B)*P(B)=P(B|A)*P(A)

“the new Y777 appears nice but is a lot of trouble”

“the new Y777 is really nice even though it gives trouble sometimes”
“I really like my new K677, it is a pleasure to use"
“the K677 is a really bad phone and I hate it”