

Training Cat

Documents

Just plain boring

entirely predictable and lacks energy

no surprises and very few laughs

very powerful.

the most fun film of the summer.

Predictable with no fun

Test

$$P(-) = \frac{3}{5} \quad P(+) = \frac{2}{5}$$

$$P(\text{predictable} | -) = \frac{1+1}{14+20} = \frac{2}{34} = \frac{1}{17}$$

$$P(\text{with} | -) = \frac{0+1}{14+20} = \frac{1}{34}$$

$$P(\text{no} | -) = \frac{2}{14+20} = \frac{2}{34} = \frac{1}{17}$$

$$P(\text{fun} | -) = \frac{0+1}{14+20} = \frac{1}{34}$$

$$P(\text{predictable} | +) = \frac{0+1}{8+24} = \frac{1}{32}$$

$$P(\text{with} | +) = \frac{0+1}{8+24} = \frac{1}{32}$$

$$P(\text{no} | +) = \frac{0+1}{8+24} = \frac{1}{32}$$

$$P(\text{fun} | +) = \frac{1+2}{8+24} = \frac{3}{32}$$

$$P(-|test) = \left(\frac{2}{33}\right) \left(\frac{1}{33}\right) \left(\frac{2}{33}\right) \left(\frac{1}{33}\right) \left(\frac{3}{5}\right) = \frac{12}{5929605}$$

$$P(+|test) = \left(\frac{2}{5}\right) \left(\frac{1}{28}\right) \left(\frac{1}{28}\right) \left(\frac{2}{28}\right) \left(\frac{1}{28}\right) = \frac{4}{3073280}$$

here $P(-|test) > P(+|test)$

So the belong to negative class