20231f043
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$$P(w/c) = \frac{Count(w,c)+1}{Count(c) + |V|}$$

here $|V| = 20$.

$P(-) = 3/5$ $\quad P(+) = 2/5$

$$P(\text{Predictable}/-) = \frac{Count(\text{Predictable}/-)+1}{Count(-) + |V|}$$

$$= \frac{1+1}{13+20} = \frac{2}{33}$$

$$P(\text{Predictable}/+) = \frac{0+1}{8+20} = \frac{1}{28}$$

$$P(\text{with}/+) = \frac{0+1}{8+20} = \frac{1}{28}$$

$$P(\text{with}/-) = \frac{0+1}{13+20} = \frac{1}{33}$$

$$P(\text{No}/-) = \frac{1+1}{13+20} = \frac{2}{33}$$

$$P(\text{no}/+) = \frac{0+1}{8+20} = \frac{1}{28}.$$

$$P(\text{fun}/+) = \frac{1+1}{8+20} = \frac{1}{28}$$

$$P(\text{fun}/-) = \frac{0+1}{13+20} = \frac{1}{33}.$$

$$P(-/\text{test}) = \frac{3}{5} \times \frac{2}{33} \times \frac{1}{33} \times \frac{2}{33} \times \frac{1}{33} = \frac{12}{5929605}$$

$$P(+/\text{test}) = \frac{2}{5} \times \frac{1}{28} \times \frac{1}{28} \times \frac{1}{28} \times \frac{1}{14} = \frac{2}{15366640}$$

$$= 768320$$

$P(-/\text{test}) > P(+/\text{test})$.

∴ Predictable with no fun belongs to