

Total = 7 words

(I liked the movie really cool movie)

movie = 2

$$\therefore \text{Unsmoothed MLE } P(\text{movie} | +) = \frac{2}{7}$$

Prediction  $\rightarrow$  model  $\rightarrow$  positive

$$-ve \rightarrow \left(\frac{1}{3}\right) \left(\frac{2}{10}\right) \left(\frac{1}{10}\right) = \frac{2}{300}$$

$$+ve \rightarrow \frac{4}{98}$$

$\therefore$  Positive