Name: Siddharth Kadem 202318015 Bigoata Document Cat just plain boring Entirely Predictable and lades Grergy Train very powerful the most from film of the Summer. 2 predictable with not fun Test 1) prior from trains: $p(C_j) = \frac{N(j)}{EN} \Rightarrow \frac{p(-)}{p(+)} = 215$ 2) Likelihood from haining: EWEV Count (w, 1) + |V| & U is 20 unique words. P(wi/c) = Count (wi, c) +1 P (Madictable |+) = 0+1 = 1 = 29 P (Madictable |-) = 1+1 = 2 = 1 = 14 = 17 $P(fun|+) = \frac{1+1}{9+70} = \frac{1}{29}$ $P(fun|-) = \frac{0+1}{14+20} = \frac{1}{39}$ $P(n_0|+) = \frac{0+1}{9+70} = \frac{1}{29}$ $P(n_0|-) = \frac{1+1}{14+20} = \frac{1}{19}$ 3. Lolving dust Let P(-): P(rad/-). P(No/-). P(for/-)

3. Estrict dest Set

$$\rho(-) = \rho(rrd/-) \cdot \rho(No/-) \cdot \rho(fun/-)$$

= 6.106 × 10⁻⁵
 $\rho(+) \cdot \rho(rrdictabl/+) \cdot \rho(No/+) \cdot \rho(fun/+)$
= 3.2 × 10⁻⁵