

In-class
10/07

① $m = 4\%$ $n = 200$

$$\text{Features} = \frac{4}{100} \times 200 = 8$$

No. of features to be added = 8
or deleted

② $i = 4$

$$\text{old acc} = 0.820$$

$$\text{new acc} = 0.790$$

$$c = 1$$

$$Pr[\text{accept}] = e^{-\frac{1}{2} \left(\frac{\text{old} - \text{new}}{\text{old}} \right)}$$

$$= e^{-4 \left(\frac{0.820 - 0.790}{0.820} \right)}$$

$$= e^{-0.15}$$

$$= e$$

$$= 0.861$$

③ 1 Improved

2 Reject

3 Improved

4 Accept

5 Accept

6 Reject

7 Improved

8 Reject.