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CS 383

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Homework #4

***Theory Problems***

A screenshot of a cell phone

Description automatically generated

X1

[+] 4

[-] 3

[+] 3

[-] 0

[+] 4

[-] 1

F

[+] 1

[-] 5

F

T

T

X2

X2

F

T

A screenshot of a social media post

Description automatically generated

a)

b)

Standardized feature, , , ,

For P(Yes):

, , ,

For P(No):

, , ,

c) From the previous part we get and 0.4028 when standardized. We then calculate for

so gets an A.

A screenshot of a cell phone

Description automatically generated

**Naïve Bayes Classifier**

Data Results:

precision = 0.6874

recall = 0.9591

fmeasure = 0.8009

accuracy = 0.8174