## SAN FRANCISCO STATE UNIVERSITY CSC 665/865: ARTIFICIAL INTELLIGENCE, SPRING 2021

## Assignment 4

**Due Date:** April 20, 2021, 1:00pm

Name and SFSU ID Nathan Hildum 918 340 844

## Submission via iLearn

Submit your answers online via iLearn as a <u>single pdf file</u> with the name <u>csc665-assign4-lastname-sfsuid</u>. Write your Name and SFSU ID at the top.

## **Academic Honesty**

Plagiarism is a serious offense and will be dealt with harshly. I consider plagiarism to be the unattributed use of an external source (e.g., another student, a web site, a book) in work for which a student takes credit, or the inappropriate use of an external source whether or not attribution is made. The seriousness of the offense depends on the extent to which the student relied upon the external source. All written responses must be your own. All work ideas and quotes that originate from elsewhere must be cited according to standard academic practice. Students caught cheating will automatically fail the course.

1. 
$$P(+g,+a,+b) = ?$$
 $P(+5|+a,+b) \cdot P(+b) P(+a|+g) P(+g) = ?$ 
 $P(+5|+a,+b) \cdot P(+b) P(+a|+g) P(+g) = ?$ 

4/21

+11/

 $B \rightarrow P(t_a|t_b) = P(t_a) =$ 

3. 
$$P(+a|+b)=?$$

$$A \perp B \rightarrow P(+a|+b)=P(+a)=[7,1]$$

$$+ P(+a|+5,+b)=? \rightarrow 0$$

$$P(+a|+5,+b) = \frac{1}{2} \Rightarrow 0$$

$$P(+a|+b,+b) = \frac{1}{2} \Rightarrow 0$$

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$$P(+$$

GILB -> P(+a1+b)= P(+a)=

