Introduction to Artificial Intelligence   Sonia Chernova

COURSE DESCRIPTION

This class introduces students to the basics of Artificial Intelligence, including techniques for search, planning, decision making, machine learning and probabilistic reasoning. The course will cover application areas, such as natural language processing and robotics, as well as recent trends in data-driven AI. The course will emphasize modern AI techniques, with a focus on probabilistic methods.

RECOMMENDED BACKGROUND

1. Familiarity with data structures and a recursive high-level language.
2. Familiarity with foundations of probability theory
3. CS 2102, CS 2223, and CS 3133

STUDENT QUESTIONNAIRE

Please rate your C++ programming proficiency:

☐ I have never used C++

☐ I have used C++ a little, but am not comfortable with it

☐ I am comfortable programming in C++

Please rate your Python programming proficiency:

☐ I have never used Python

☐ I have used Python a little, but am not comfortable with it

☐ I am comfortable programming in Python

Please rate your proficiency in programming with recursion:

☐ I'm not sure what recursion is

☐ I know what recursion is, but have never applied it in practice

☐ I have used recursion a little, but am not comfortable with it

☐ I am comfortable with programming using recursion

Write down Bayes Rule:

If A and B are independent events, and P(A) = 0.1 and P(B)=0.6, what is the value of P(B|A)?