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CIS 471: Introduction to Artificial Intelligence

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Homework 4

1. **Probability**
2. **Bayes Nets and Probability**
3. **Bayes Nets: Independence**
   1. B
   2. Both A and B are consistent with the two hypotheses given
   3. A
4. **Bayes Nets: D-Separation**
   1. False
   2. False
   3. True
   4. True
   5. False
   6. True
5. **Bayes Nets: Variable Elimination**
6. **Bayes Nets: Sampling**
   1. A: 0 B: 1 C: None D: None E: None

*Rejected:* B

* 1. A: (A = 1, 0.249) B: (B = 1, 0.8) C: (C = 0, 0.052) D: (D = 0, 0.299)

E: (E = 1, 0.8)

*Weight:* 0.64