Kahoot!

NCB + MDP + DN

0 favorites   **1** play   **7** players

A private kahoot

Questions (10)

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1 - Quiz

Given Bayes Theorem formula, which one is the "posterior probability?

20 sec

▲	**P (class	data)**	✓
◆	**P (data	class)**	✗
⬤	**P (class)**	✗
◼	**P (data)**	✗

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2 - Quiz

Given Table 1, calculate the probability P(pos | "Shape == Circle")

60 sec

▲	4 / 6	✗
◆	2 / 4	✓
⬤	3 / 6	✗
◼	2 / 3	✗

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3 - True or false

Is this statement correct? P(pos, "Shape == Circle") ≤ P(pos | "Shape == Circle")

60 sec

| ▲ | True | ✓ |
| ◆ | False | ✗ |

4 - True or false

The following is a correct Naïve Bayes Classifier formulation.   30 sec

🔺 True   ✔️

🔷 False   ❌

5 - Quiz

One of these is FALSE for a Naïve Bayes Classifier.   30 sec

🔺 Inputs attributes are assumed to be Mutually Independent   ❌

🔷 Classes are used to have a Uniform Prior   ❌

🟡 Inputs attributes are ALWAYS assumed to be discreate.   ✔️

🟩 Probability density function deals with continues inputs   ❌

6 - Quiz

A Markov Decision Process is a 4-tuple (S,A,Pa,Ra). Select the INCORRECT option.   20 sec

🔺 S -> A set of "States   ❌

🔷 A - > A set of "Probabilities of Action"   ✔️

🟡 P -> Probability of "moving from one state to another!   ❌

🟩 R -> Expected immediate "Rewards" for an action   ❌

7 - Quiz

What is a policy in a Markov Decision Process?

20 sec

🔺 A set of recommended action ✓

🔷 A set of probabilities ✗

🟡 A set of states ✗

🟩 A set of rewards ✗

8 - Quiz

What is the purpose of a Decision Network?

20 sec

🔺 Parallel decision making ✗

🔷 Sequential Decision Making ✓

🟡 Classification ✗

🟩 Reasoning ✗

9 - Quiz

What is a policy in Decision Network?

20 sec

🔺 A set of mapping for each nodes ✗

🔷 A set of mapping for each decision nodes ✓

🟡 A set of mapping for value node ✗

🟩 A set of mapping for chance node ✗

10 - Quiz

How optimal policy in a decision network is computed?

20 sec

△ Sequentially in forward direction for all decision nodes ✗

◇ Sequentially in forward direction for all chance node ✗

○ Sequentially in backward direction for all decision nodes ✓

□ Sequentially in backward direction for all chance node ✗