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28 Oct 2022 - An Overview of Machine Learning

[Quiz 03](#)**Started on** Friday, 4 November 2022, 11:43 AM**State** Finished**Completed on** Friday, 4 November 2022, 11:54 AM**Time taken** 10 mins 53 secs**Grade** 4.00 out of 5.00 (80%)

Question 1

Correct

Mark 1.00 out of 1.00

Match the likelihoods functions with the conjugate priors:

(You may need to other resources as well.)



Normal (known variance) for mean

Normal  

Poisson

Gamma  

Bernoulli

Beta  

Your answer is correct.

The correct answer is:

Normal (known variance) for mean → Normal,

Poisson → Gamma,

Bernoulli → Beta

Question 2


Not answered

Marked out of 1.00

Jack is betting that a biased coin which lands heads-up with a probability of 0.6. He will win 1000 USD if he wins but will have to pay 1000 USD if he loses. What is the risk involved in the bet?

(Mention 3 decimals in your answer without rounding off)

Answer:

The correct answer is: 979.795

Question 3

Correct

Mark 1.00 out of 1.00

Regression classification MDP prediction clustering

Predicting the price of a stock within the London Stock Exchange is a **Regression** ✓ problem.

Question 4

Correct

Mark 1.00 out of 1.00

The Bayesian approach is

- ☒ a. less prone to overfitting ✓
- ☐ b. more prone to overfitting

Your answer is correct.

The correct answer is:
less prone to overfitting

Question 5

Correct

Mark 1.00 out of 1.00

Pick an example for an application of each type of Machine Learning

Unsupervised Learning Clustering ✓

Supervised Learning Classification ✓

Reinforcement Learning Markov Decision Models ✓

Your answer is correct.

The correct answer is:
Unsupervised Learning → Clustering,
Supervised Learning → Classification,
Reinforcement Learning → Markov Decision Models

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02b - An Overview of Machine Learning ▶

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