

Kahoot! DL Lecture Quiz 13 (2021)

1 play · 38 players

A public kahoot

Questions (8)

Q uoc				
1 - Quiz For safety-critical applications, we typically prefer a model that				
	is never uncertain	×		
•	is wrong only if it is uncertain	✓		
	is uncertain only if it is wrong	×		
	is always certain	×		
2 - Quiz Aleatoric vs Epistemic uncertainty		20 sec		
	Epistemic uncertainty can be reduced by collecting more data	✓		
•	Aleatoric uncertainty can be reduced by collecting more data	×		
	Model uncertainty is Aleatoric	×		
	Intrinsic measurement uncertainty is Epistemic	×		

3 - Quiz The correct formula for the pdf of a univariate Gaussian is:	20 sec	
A	×	
C	×	
В	✓	
D	×	
4 - Quiz Bayesian Linear Regression with Gaussian prior/likelihood: Which of the following is/are true?		
The predicted mean is equal to the Maximum Likelihood estimate (MLE)	×	
The posterior distribution is Gaussian	✓	
The predicted mean is equal to the Maximum a Posteriori (MAP) estimate	✓	
The posterior predictive distribution can be computed exactly/analytically.	✓	
5 - Quiz ELBO: Which of the following terms can be computed exactly (given an appropriate choice of prior and q)		
(a)	×	
(c)	✓	
(b)	✓	
(d)	×	

6 - Quiz When using uncertainty estimates are based on predictions made by models sampled from the posterior distribution.			
	DNGO	×	
•	Ensembles (e.g. of NNs trained from different initializations)	×	
	MCMC	✓	
	Variational Inference	×	
7 - Quiz Which of the following best describes the idea underlying PFNs			
	Only model uncertainty in the final layer to keep the posterior tractable	×	
•	Approximate an intractable posterior by a simpler distribution	×	
	Learn to directly predict the posterior predictive distribution.	✓	
	Sample from the posterior instead of calculating it exactly	×	
8 - Quiz Prior-fitted Networks (PFNs)			
	are trained on a prior over datasets	✓	
•	predict the posterior distribution	×	
	are trained on a prior over parameters of the neural network	×	
	predict the posterior predictive distribution	✓	