Congratulations! You passed!

Grade received 90.90% Latest Submission Grade 90.91% To pass 80% or higher

Go to next item

1.	Mean-centering the data helps MCMC Sampling by	1/1 point
	Reducing the correlation between the variables	
	Reducing the variance of the variables	
	⊘ Correct	
2.	Hierarchical Linear Regression is beneficial when pooling data results in vital group information being lost	1/1 point
	True	
	○ False	
	⊘ Correct	
3.	Non-hierarchical Linear Regression with groups of sparse data can result in	1/1 point
	very large credible intervals	
	overy small credible intervals	
	⊘ Correct	

4.	In Hierarchical Linear Regression, prior parameters for distributions are	1 / 1 point
	o are constant values	
	Distributions	
	⊘ Correct	
5.	Polynomial Regression is useful for	1/1 point
	○ Linear data	
	Non-linear data	
	⊘ Correct	
6.	Multiple Linear Regression is used when you have	1 / 1 point
	Multiple dependent or target variables	
	Multiple independent or predictor variables	
	⊘ Correct	
7.	PyMC3 allows you to model multidimensional variables using the shape parameter in a distribution definition, without having to create multiple parameters explicitly.	1/1 point
	True	
	○ False	
	⊘ Correct	
8.	The inverse link function of linear regression is	1/1 point
	O Logit function	
	Identity function	

✓ Correct

9.	Multiclass	classification us	es the

1/1 point

- Sigmoid function
- Softmax function
 - ✓ Correct

10. A binary classification problem uses the Bernoulli distribution to model the target, the multiclass classification uses

1/1 point

- Categorical distribution
- Poisson distribution
 - **⊘** Correct

11. Does this code indicate a

0/1 point

```
\alpha_{tmp} = pm.Normal('\alpha_{tmp}', mu=2, sd=5, shape=M)
```

 β = pm.Normal(' β ', mu=0, sd=10, shape=M)

 ϵ = pm.HalfCauchy(' ϵ ', 5)

v = pm.Exponential('v', 1/30)

y_pred = pm.StudentT('y_pred', mu=
$$\alpha$$
_tmp[idx] + β [idx] * x_centered, sd= ϵ , nu= ν , observed= γ _m)

- Hierarchical model
- Non-hierarchical model
 - (\times) Incorrect

The prior distribution has constant parameters.