

Congratulations! You passed!

TO PASS 70% or higher

Keep Learning

GRADE 100%

Phase 3. Project 2

100%		
1.	What is a pro of using k-fold cross-validation instead of a hold-out validation set for hyperparameter tuning Requires less overall time to train a model, due to the reduced number of training samples Regularizes the model by randomly selecting training examples automatically Improves model convergence rates because many hyperparameters can be tested at the same time Produces a more reliable estimate of the generalization performance of the model	g? 1/1 point
	Correct Because generalization performance is estimated k times, it provides a potentially more stable esti the generalization performance than using a single validation set.	imate of
	Phase 3. Project 2 Graded Quiz • 30 min Requires more overall time to train a model, due to the repeated training runs associated with each expension of parameters in the overall model, which leads to overfitting Decreases model generalization performance because the model is able to learn on the test set	Due Mar 29, 2:59 PM CS xperiment
	Increases the overall memory requirements of the model during training, due to the higher number of seen during training	f samples
	Correct k-fold cross-validation requires running the model training procedure k times, which thus increase overall training time significantly.	es the
3.	What are common criteria used for early stopping? Check all that apply . Validation loss	1/1 point
	✓ Correct The validation set should be used for hyperparameter tuning and early stopping, as it gives us our approximation of generalization performance. Depending on the use case, it is acceptable to use longer to the control of the control	
36	← Phase 3. Project 2 Graded Quiz • 30 min	Due Mar 29, 2:59 PM CS
	☐ Test loss☐ Training loss✓ Validation AUROC	
	Correct The validation set should be used for hyperparameter tuning and early stopping, as it gives us our approximation of generalization performance. Depending on the use case, it is acceptable to use A	
	☐ Training AUROC	
4.	Which of the following hyperparameters are exclusive to deep learning models? Check all that apply . Dropout probability	1/1 point
	✓ Correct Dropout requires the model to have neurons, often many neurons. This makes it particularly well s	suited for

Learning rate

ST

deep learning models.

✓ Number of layers



Traditional machine learning models can only have at most 1 layer, so the number of layers can only be tuned in deep learning models.

Class weights (loss function)