SDAIA ML Week 4 Quiz

1) The k-fold method trains k models and then gives you the best performance between them.

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True

False.

2) If we're dealing with the problem of classification of a tumor between benign (Negative) or malignant (Positive), what is the most important metric to tune our model?

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Recall

Accuracy

Precision

ROC AUC

3) When comparing 2 models, we train them on the same dataset, and we have to test them on the same test set.

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True

False

4) When we set alpha/2 = 2.5%, what's the corresponding value of Zalpha/2? Tip: You can refer to the probability tables that you saw during the lessons.

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O 2.575	
1.96	
O 1.645	
5) Data Imbalance is one of the most common problems that occur in regression problems.	10 🛊
○ True	
○ False	
6) When decreasing the complexity of our model we have to avoid: (Mark all correct responses)	10 🛊
O Data Bias	
○ Underfitting	
O Data Imbalance	
Overfitting	
7) To work with hyperparameter tuning, the best way is to divide our dataset between/among:	10 🛊
Training and testing	
Training, validation and testing	
 Training and testing, and apply k-fold cross validation on training. 	
 Training, validation and testing, and apply k-fold cross validation on training 	

8) In bagging, we aggregate results by:	10 🛊
 Weighted Averaging 	
○ Soft Voting	
Majority Voting	
 Minority Voting 	
 9) In Statistical Hypothesis Testing, our null hypothesis is that the 2 models perform differently. Then we run the test and check if we reject the null hypothesis or not. True False 	10 🖈
Time Left: 00:14:02 Decome 0. vve are most likely dealing with.	
○ Lasso Regularization	
Ridge Regularization	
Elastic Net Regularization	

Submit Test

O Inverse Regularization

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