In-Class-2

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- 1. What is the k value in" k-fold cross-validation"?
- A. K = 3
- 2. Create a confusion matrix for the test results.

	Actual						
Р		Cat	Dog	Fox			
r .	Cat	3	1	0			
e	Dog	3	3	2			
d	Fox	1	0	2			

3. Show the formulas and calculate the value of the following metrics:

Accuracy =
$$TP / (TP + FP + TN + FN)$$

Precision =
$$TP / (TP + FP)$$

Recall =
$$TP / (TP + FN)$$

- b. Pcat = 3/4
- c. Pdog = 3/8
- d. Pfox = 2/3
- e. Rcat = 3/7
- f. Rdog = 3/4
- g. Rfox = 2/4 = 1/2
- h. F1cat = 6/11
- i. F1dog = 6/12 = 1/2
- j. F1fox = 4/7

	Classes					
М		Cat	Dog	Fox		
е						
t						
r	Precision	3/4	3/8	2/3		
i						
С	Recall	3/7	3/4	1/2		
S						
	F1	6/11	1/2	4/7		