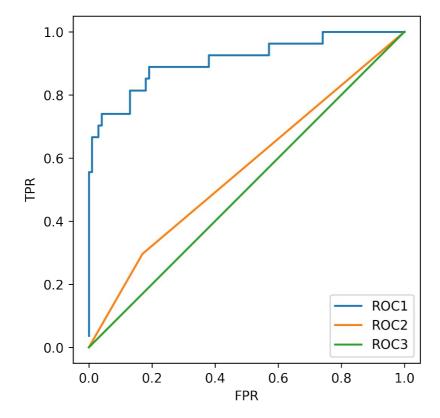


0.7

6. Given the following models and AUC scores, match each model to its corresponding ROC curve.

1 point

- Model 1 test set AUC score: 0.91
- Model 2 test set AUC score: 0.50
- Model 3 test set AUC score: 0.56





- Model 1: Roc 1
- Model 2: Roc 2
- Model 3: Roc 3



- Model 1: Roc 1
- Model 2: Roc 3

Model 3: Roc 2



- Model 1: Roc 2
- Model 2: Roc 3
- Model 3: Roc 1



- Model 1: Roc 3
- Model 2: Roc 2
- Model 3: Roc 1

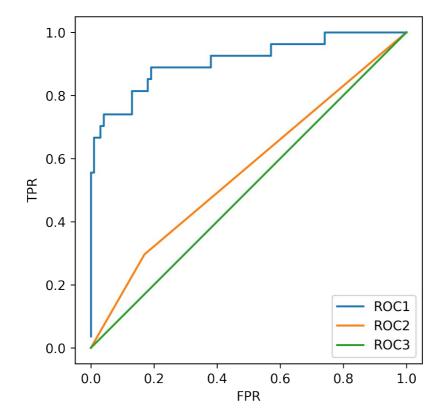


Not enough information is given.

7. Given the following models and accuracy scores, match each model to its corresponding ROC curve.

1 point

- Model 1 test set accuracy: 0.91
- Model 2 test set accuracy: 0.79
- Model 3 test set accuracy: 0.72



 \mathcal{Q}

- Model 1: Roc 1
- Model 2: Roc 2
- Model 3: Roc 3



- Model 1: Roc 1
- Model 2: Roc 3
- Model 3: Roc 2



• Model 1: Roc 2

	Model 3: Roc 1	
	Model 1: Roc 3	
	Model 2: Roc 2	
	Model 3: Roc 1	
	$_{c}^{\circ}$	
	Not enough information is given.	
8.	Using the fitted model `m` what is the macro precision score?	1 point
	(Use y_test and X_test to compute the precision score.)	
	<pre>1 pred = m.predict(X_test) 2 print('Macro-averaged precision = {:.2f} (treat classes equally)' 3</pre>	
	Macro-averaged precision = 0.81 (treat classes equally)	
	0.81	
9.	Which of the following is true of the R-Squared metric? (Select all that apply)	1 point
	A model that always predicts the mean of y would get a score of 0.0	
	A model that always predicts the mean of y would get a negative score	
	The worst possible score is 0.0	
	The best possible score is 1.0	
10.	In a future society, a machine is used to predict a crime before it occurs. If you were responsible for tuning this machine, what evaluation metric would you want to maximize to ensure no innocent people (people not about to commit a crime) are imprisoned (where crime is the positive label)?	1 point
	$_{\mathbf{c}}^{\bigcirc}$	
	Accuracy	
	O C	
	Precision	
	()	

• Model 2: Roc 3

Recall

	o c	
	F1	
	O	
	AUC	
11.	Consider the machine from the previous question. If you were responsible for tuning this machine, what evaluation metric would you want to maximize to ensure all criminals (people about to commit a crime) are imprisoned (where crime is the positive label)?	1 point
	O	
	Accuracy	
	O _C	
	Precision	
	Recall	
	F1	
	\circ	
	AUC	
12.	A classifier is trained on an imbalanced multiclass dataset. After looking at the model's precision scores you find that the micro averaging is much smaller than the macro averaging score. Which of the following is most likely happening?	i, 1 point
	O	
	The model is probably misclassifying the infrequent labels more than the frequent labels.	
	The model is probably misclassifying the frequent labels more than the infrequent labels.	
13.	Using the already defined RBF SVC model `m`, run a grid search on the parameters C and gamma, for values [0.01, 0.1, 1, 10]. The grid search should find the model that best optimizes for recall. How much better is the recall of this model than the precision? (Compute recall - precision to 3 decimal places)	1 point
	(Use y_test and X_test to compute precision and recall.)	
	1 print(m)	
	Reset	
		1
	Enter answer here	

14. Using the already defined RBF SVC model `m`, run a grid search on the parameters C and gamma, for values [0.01, 0.1, 1, 10]. The grid search should find the model that best optimizes for precision. How much better is the precision of this model than the recall? (Compute precision - recall to 3 decimal places)