

100%

## **Understanding Support Vector Machines**

1.	Hinge loss.		1/1 point
	✓ Is a co	onvex surrogate for misclassification loss	
	Co	rrect prrect! Hinge loss is meant to capture important characteristics of misclassification loss while still being nvex.	
	Chang	ges angles for different points	
	Penali are clo	izes incorrectly labelled data points that are further from the decision boundary more than those that oser	
	<b>✓ c</b> ₀	rrect prrect! Hinge loss penalizes data points that are far on the wrong side of the decision boundary.	
	☐ Is a ki	nd of regression loss	
	☐ Is a dif	fferentiable surrogate for misclassification loss	
2.	It's alw	ways a two-dimensional line.  Imizes misclassifications.  The is the same distance from the closest training example from each class.	1/1 point
	<b>✓ c</b> ₀	rrect rrect! The maximum minimum margin is the same distance, as long as the data is actually linearly separable.	
3.	svm svc ensem tree	age must you import to build Support Vector Machines in scikit-learn?  nble  _model	1/1 point
	<b>✓ Co</b>	rrect rrect!	