## Introduction Quiz, 5 questions

1 point
1. A computer program is said to learn from experience E with
respect to some task T and some performance measure P if its
performance on T, as measured by P, improves with experience E.
Suppose we feed a learning algorithm a lot of historical weather
data, and have it learn to predict weather. In this setting, what is T?
The weather prediction task.
None of these.
The probability of it correctly predicting a future date's weather.
The process of the algorithm examining a large amount of historical weather data.
1
point
2. Suppose you are working on weather prediction, and you would
like to predict whether or not it will be raining at 5pm
tomorrow. You want to use a learning algorithm for this.
Would you treat this as a classification or a regression problem?
Regression
Classification
1
3. Suppose you are working on stock market prediction. You would like to predict whether or not a certain company will win a patent infringement lawsuit (by training on data of companies that had to defend against similar lawsuits). Would you treat this as a classification or a regression problem?  Classification
Regression
1 point 4.

Some of the problems below are best addressed using a supervised  $\underbrace{Introduction}$ 

learning algorithm, stien the others with an unsupervised

learning algorithm. Which of the following would you apply

supervised learning to? (Select all that apply.) In each case, assume some appropriate

datase	t is available for your algorithm to learn from.	
	Given historical data of children's ages and heights, predict children's height as a function of their age.	
	Examine a large collection of emails that are known to be spam email, to discover if there are sub-types of spam mail.	
	Given 50 articles written by male authors, and 50 articles written by female authors, learn to predict the gender of a new manuscript's author (when the identity of this author is unknown).	
	Take a collection of 1000 essays written on the US Economy, and find a way to automatically group these essays into a small number of groups of essays that are somehow "similar" or "related".	
1		
poin	t	
5.		
vvnicn	of these is a reasonable definition of machine learning?	
$\bigcirc$	Machine learning learns from labeled data.	
$\bigcirc$	Machine learning is the field of allowing robots to act intelligently.	
$\bigcirc$	Machine learning is the science of programming computers.	
	Machine learning is the field of study that gives computers the ability to learn without being explicitly programmed.	
I, Mark R. Lytell, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account. Learn more about Coursera's Honor Code		
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