Introduction Quiz, 5 questions

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. What would be a reasonable choice for P? The weather prediction task. The process of the algorithm examining a large amount of historical weather data. None of these. The probability of it correctly predicting a future date's weather. 1 point 2. Suppose you are working on weather prediction, and use a learning algorithm to predict tomorrow's temperature (in degrees Centigrade/Fahrenheit). Would you treat this as a classification or a regression problem? Classification Regression 1 point 3. Suppose you are working on stock market prediction, and you would like to predict the price of a particular stock tomorrow (measured in collars). You want to use a learning algorithm for this. Would you treat this as a classification or a regression problem? Classification Classification Classification	
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learning algo	orithm, and the oth

w are best addressed using a supervised

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	et is available for your algorithm to learn from.
	Given data on how 1000 medical patients respond to an experimental drug (such as effectiveness of the treatment, side effects, etc.), discover whether there are different categories or "types" of patients in terms of how they respond to the drug, and if so what these categories are.
	Have a computer examine an audio clip of a piece of music, and classify whether or not there are vocals (i.e., a human voice singing) in that audio clip, or if it is a clip of only musical instruments (and no vocals).
	Given a large dataset of medical records from patients suffering from heart disease, try to learn whether there might be different clusters of such patients for which we might tailor separate treatments.
	Given genetic (DNA) data from a person, predict the odds of him/her developing diabetes over the next 10 years.
poin	nt .
Which	of these is a reasonable definition of machine learning?
	Machine learning is the field of study that gives computers the ability to learn without being explicitly programmed.
\bigcirc	Machine learning learns from labeled data.
\bigcirc	Machine learning is the field of allowing robots to act intelligently.
	Machine learning is the science of programming computers.
	Mark R. Lytell, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my oursera account. Learn more about Coursera's Honor Code
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