Introduction

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 process of the algorithm examining a large amount of historical weather data.
- None of these.
- The weather prediction task.
- The probability of it correctly predicting a future date's weather.

1 point 2. Suppose you are working on weather prediction, and you would

	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, and you
	would like to predict the price of a particular stock tomorrow
	(measured in dollars). You want to use a learning algorithm for this.
	Would you treat this as a classification or a regression problem?
	Classification
	Regression
1 4.	Some of the problems below are best addressed
point	using a supervised
	learning algorithm, and the others with an unsupervised
	learning algorithm. Which of the following would you

like to predict whether or not it will be raining at

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

dataset is available for your algorithm to learn from. Examine a web page, and classify whether the content on the web page should be considered "child friendly" (e.g., nonpornographic, etc.) or "adult." 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 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. In farming, given data on crop yields over the last 50 years, learn to predict next year's crop yields. Which of these is a reasonable definition of machine learning? Machine learning learns from labeled data. Machine learning is the field of allowing robots to act intelligently. Machine learning is the field of study that

gives computers the ability to learn without being explicitly programmed.

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Machine learning is the s programming computers	
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