# Introduction

Quiz, 5 questions

**5/5 points (100%)**

## ✔ Congratulations! You passed!

Next Item

## Question Responses

- ✔ Question 1
- ✔ Question 2
- ✔ Question 3
- ✔ Question 4
- ✔ Question 5

## Review Materials

- **Unsupervised Learning**
- **Supervised Learning**
- **What is Machine Learning?**

✔ 1 / 1 points

Concepts

★ Define a well posed machined learning problem

**What is Machine Learning? (00:18)**

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?

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✔ 1 / 1 points

# Introduction

Quiz, 5 questions

**5/5 points (100%)**

Concepts

- Define regression as a subset of supervised learning problems where the output is continuous.
  - **Supervised Learning (00:08)**
- Define classification as a subset of supervised learning problems where the output is discrete.
  - **Supervised Learning (02:58)**

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?

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✔ 1 / 1 points

Concepts

- Define regression as a subset of supervised learning problems where the output is continuous.
  - **Supervised Learning (00:08)**
- Define classification as a subset of supervised learning problems where the output is discrete.
  - **Supervised Learning (02:58)**

3.

Suppose you are working on stock market prediction. You would like to predict whether or not a certain company will declare bankruptcy within the next 7 days (by training on data of similar companies that had previously been at risk of bankruptcy). Would you treat this as a classification or a regression problem?

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✔ 1 / 1 points

Concepts

- Define supervised learning as problems where the desired output is provided for examples in the training set.

**5/5 points (100%)**

**Supervised Learning**

★ Define unsupervised learning as problems where we are not told what the desired output is.

**Unsupervised Learning (00:20)**

4.

Some of the problems below are best addressed using a supervised

learning algorithm, and 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

dataset is available for your algorithm to learn from.

✔ 1 / 1 points

Concepts

★ Define a well posed machined learning problem

**What is Machine Learning? (00:18)**

5.

Which of these is a reasonable definition of machine learning?