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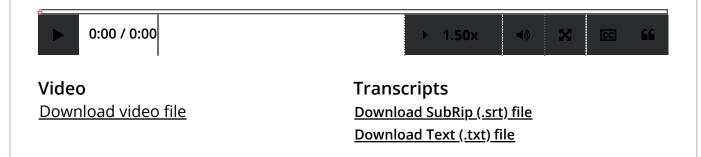**Audit Access Expires May 11, 2020**
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3. What is Machine Learning?
Machine Learning and Prediction

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Machine learning as a discipline aims to design, understand, and apply computer programs that learn from experience (i.e. data) for the purpose of modelling, prediction, and control. We will start with **prediction** as a core machine learning task.

There are many types of predictions that we can make. We can predict outcomes of events that occur in the future such as the market, weather tomorrow, the next word a text message user will type, or anticipate pedestrian behavior in self driving vehicles, and so on.

We can also try to predict properties that we do not yet know. For example, properties of materials such as whether a chemical is soluble in water, what the object is in an image, what an English sentence translates to in Hindi, whether a product review carries positive sentiment, and so on.

Discussion

Topic: Unit 1 Linear Classifiers and Generalizations (2 weeks):Lecture 1. Introduction to Machine Learning / 3. What is Machine Learning?

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