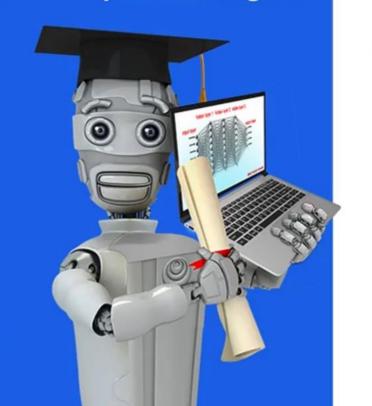
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Machine Learning Overview

Unsupervised Learning
Part 2

Unsupervised learning

Data only comes with inputs x, but not output labels y. Algorithm has to find structure in the data.

<u>Clustering</u> Group similar data points together.

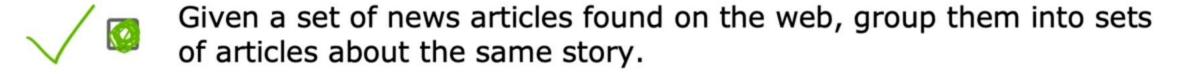
<u>Dimensionality reduction</u> Compress data using fewer numbers.

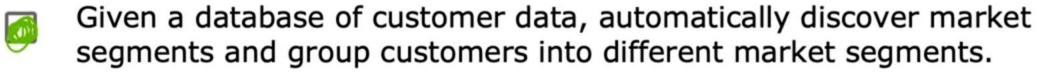
Anomaly detection Find unusual data points.

Question

Of the following examples, which would you address using an unsupervised learning algorithm?







Given a dataset of patients diagnosed as either having diabetes or not, learn to classify new patients as having diabetes or not