* Unspenvised Learning

-> Algorithms:

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.

Stanford ONLINE

DeepLearning.Al

Andrew Ng



Question

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

- Given email labeled as spam/not spam, learn a spam filter.
- Given a set of news articles found on the web, group them into sets of articles about the same story.
- Given a database of customer data, automatically discover market segments and group customers into different market segments.
- Given a dataset of patients diagnosed as either having diabetes or not, learn to classify new patients as having diabetes or not