

Intro to ML 3: Unsupervised

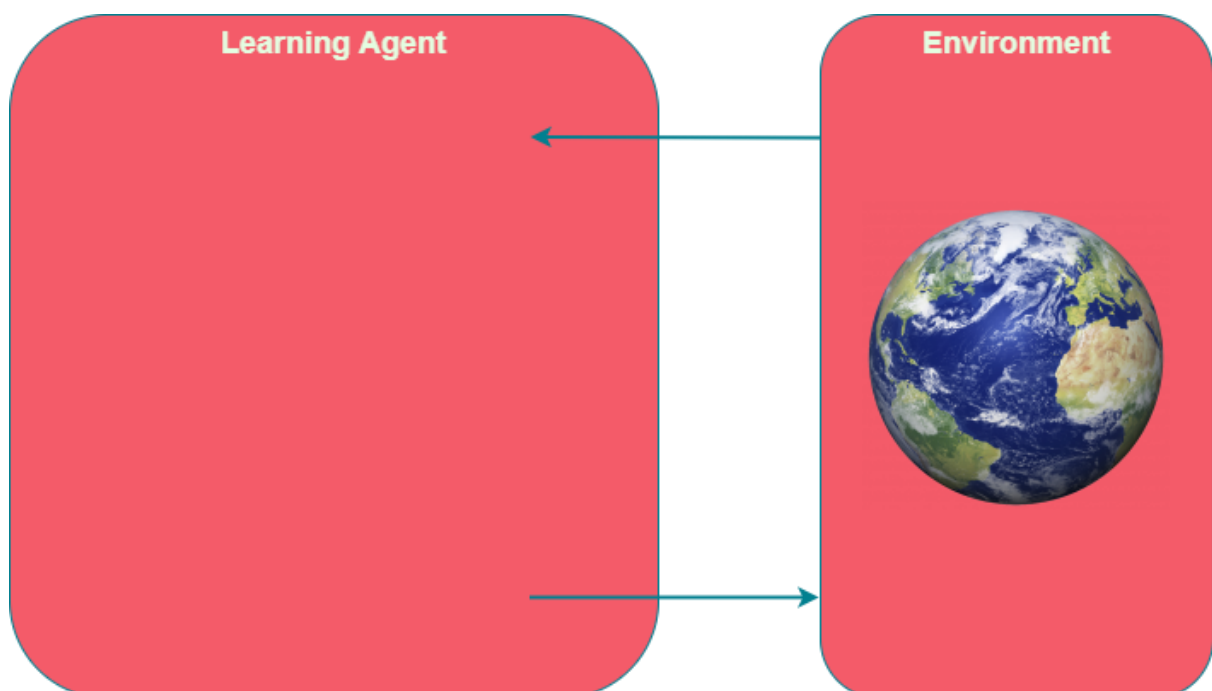
Pre-Workshop Exercises



What is Machine Learning?

Q: What are the missing subsystems in the flowchart below?

Q: What do those subsystems do?



Types of Machine Learning?

Q: What are the three main types of machine learning?

Q: What was classification about?

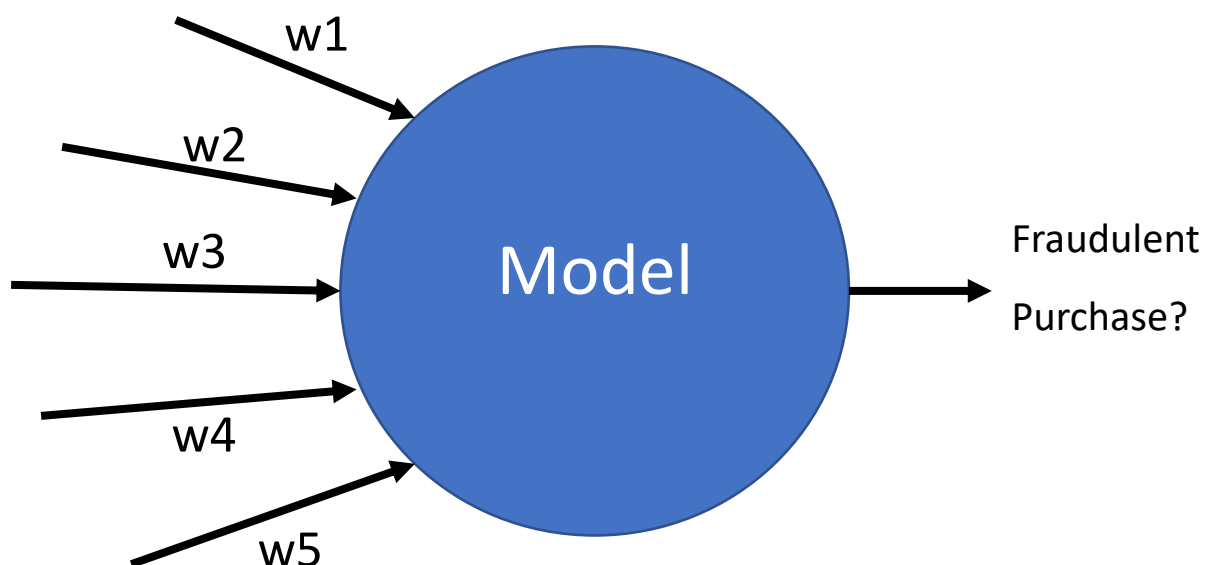
Q: How is supervised different from unsupervised?

What are Features?

Consider an arbitrary model below that takes in features and outputs a prediction of whether the purchase is fraudulent or not. List five features you could use.

- 1.
- 2.
- 3.
- 4.
- 5.

Rank the weights of the features from highest to lowest. Include whether the weights are positive, zero, or negative.



Where are the Clusters?

Consider the graphs below. Outline the clusters.

How many clusters are there?

Highlight the outliers.



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