

Lecture 16

Unsupervised Learning

1 Supervised vs. Unsupervised Learning

2 Clustering

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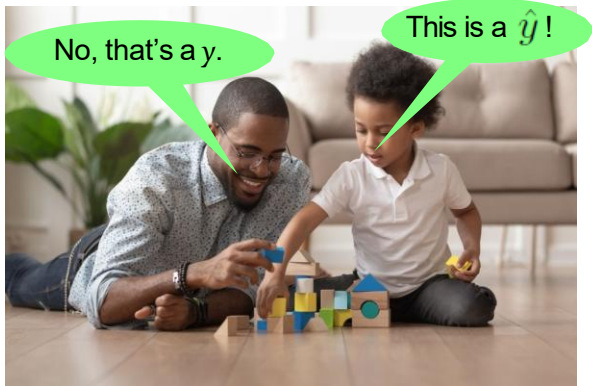
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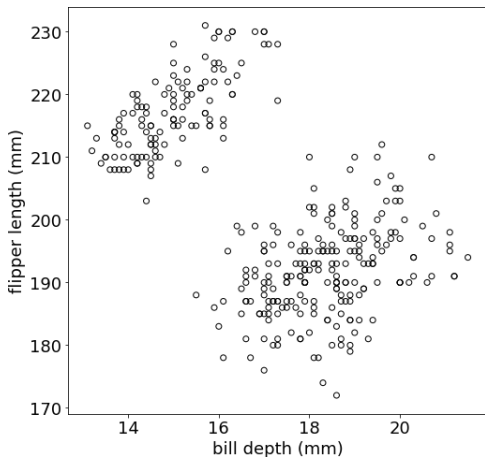
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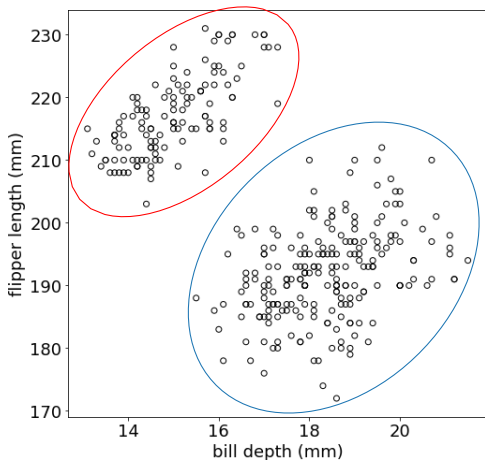
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There appear to be at least two distinct types of penguins.

***K*-Means Clustering**

We will explore a specific clustering model, called *k*-means clustering, in a Colab.



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- **Market Segmentation:** A business wants to group their customers into types.
- **Language:** A linguist might want to identify different uses of ambiguous words like “set” or “run”.