

Unsupervised Machine learning

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DATE: _____

- Supervised Learning
 - Using historical label data, predict a labeled data, predict a label on new data (regression or classification)

- Unsupervised learning
 - Understanding using unlabeled data, discover patterns, clusters or significant components.

- Clustering:
 - Using features, group together data rows into distinct clusters.

- Dimensionality Reduction
 - using features, discover how to combine and reduce into fewer components.

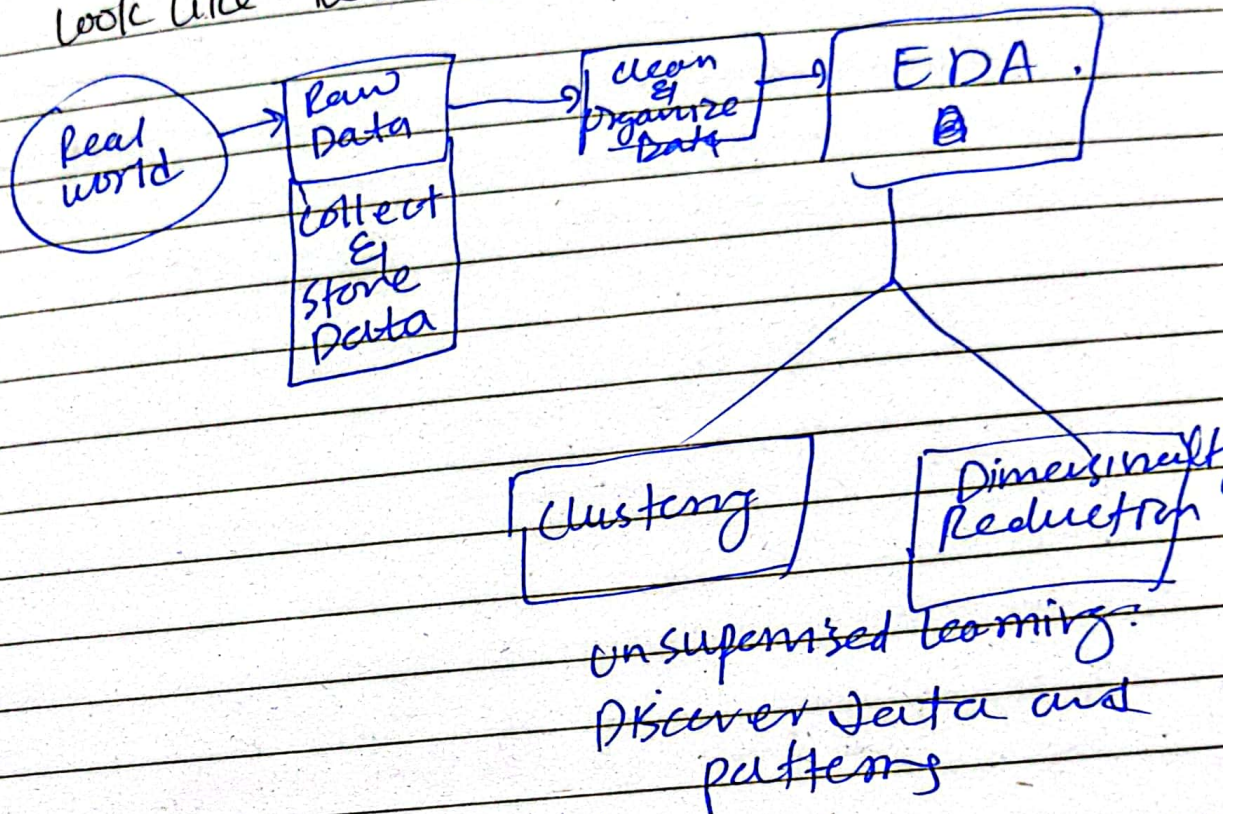
paradigm shift for supervised Learning to unsupervised learning! :

supervised performance metrics will not apply for unsupervised learning!

- How can we compare correct labels answer, if there was no label to begin with?

NOTES

- What does our Machine Learning pathway look like with unsupervised learning?



Clustering: if we have unlabeled data, can we attempt to "discover" possible label for clusters?

Dimensionality Reduction = if we have unlabeled data, can we attempt to reduce the number of features by combining them into new components? Do these new components gives us further insight for the data?