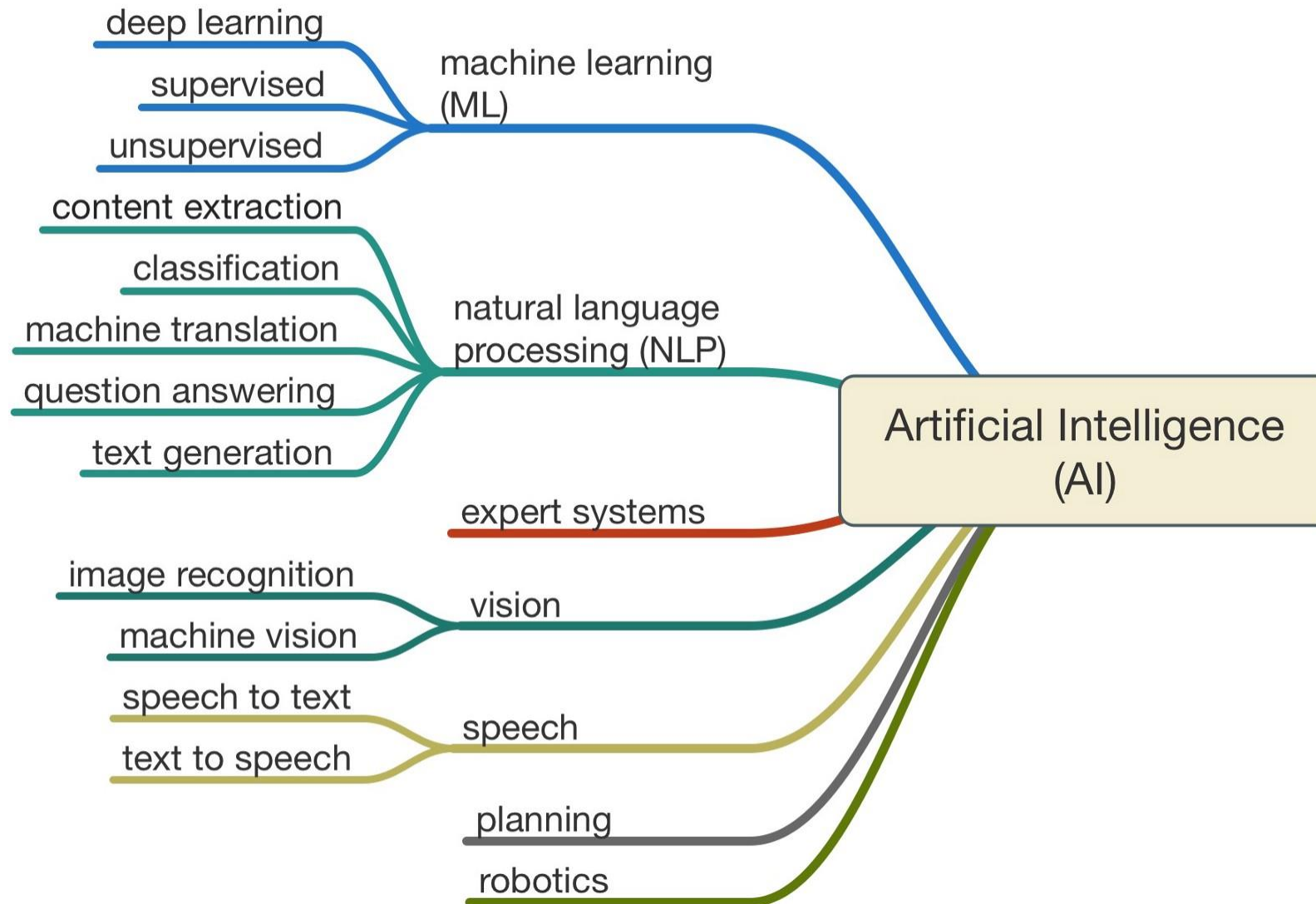


MACHINE LEARNING

Supervises &
Unsupervised
learning



Artificial Intelligence

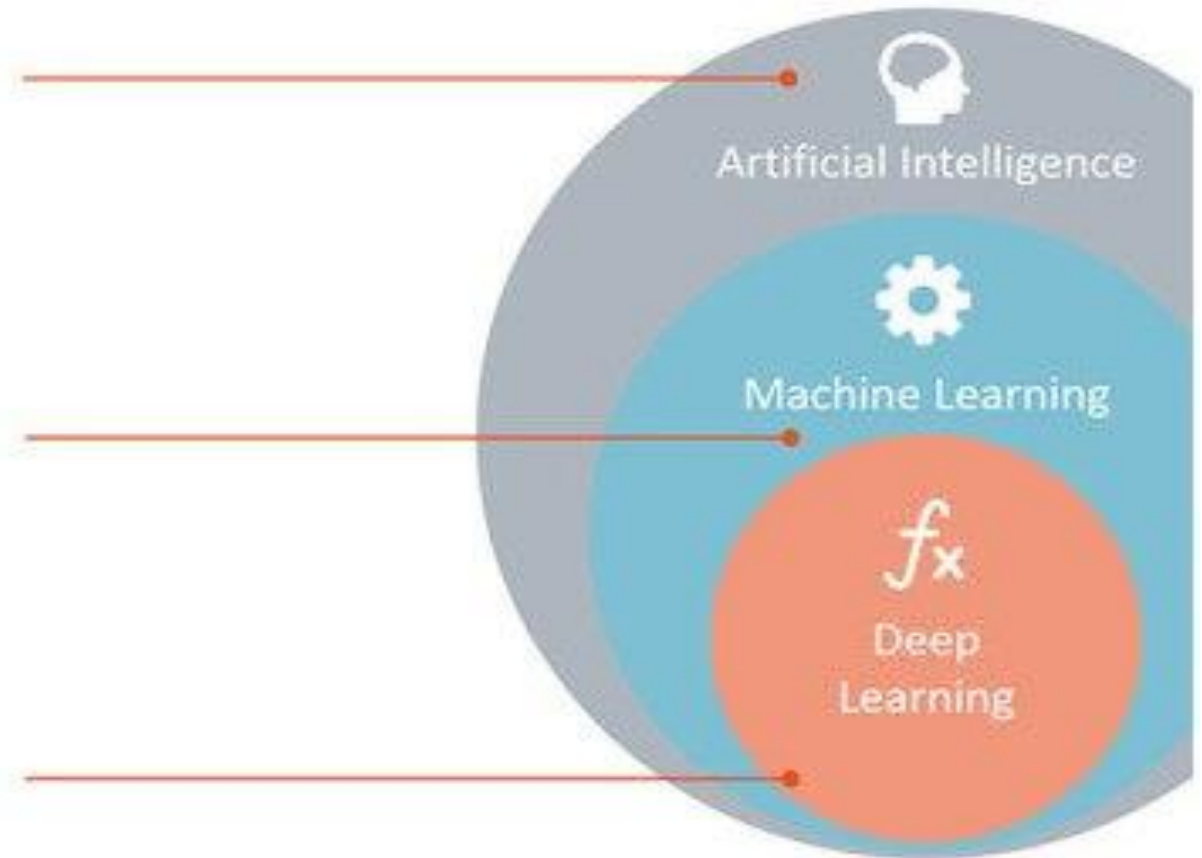
Any technique which enables computers to mimic human behavior.

Machine Learning

Subset of AI techniques which use statistical methods to enable machines to improve with experiences.

Deep Learning

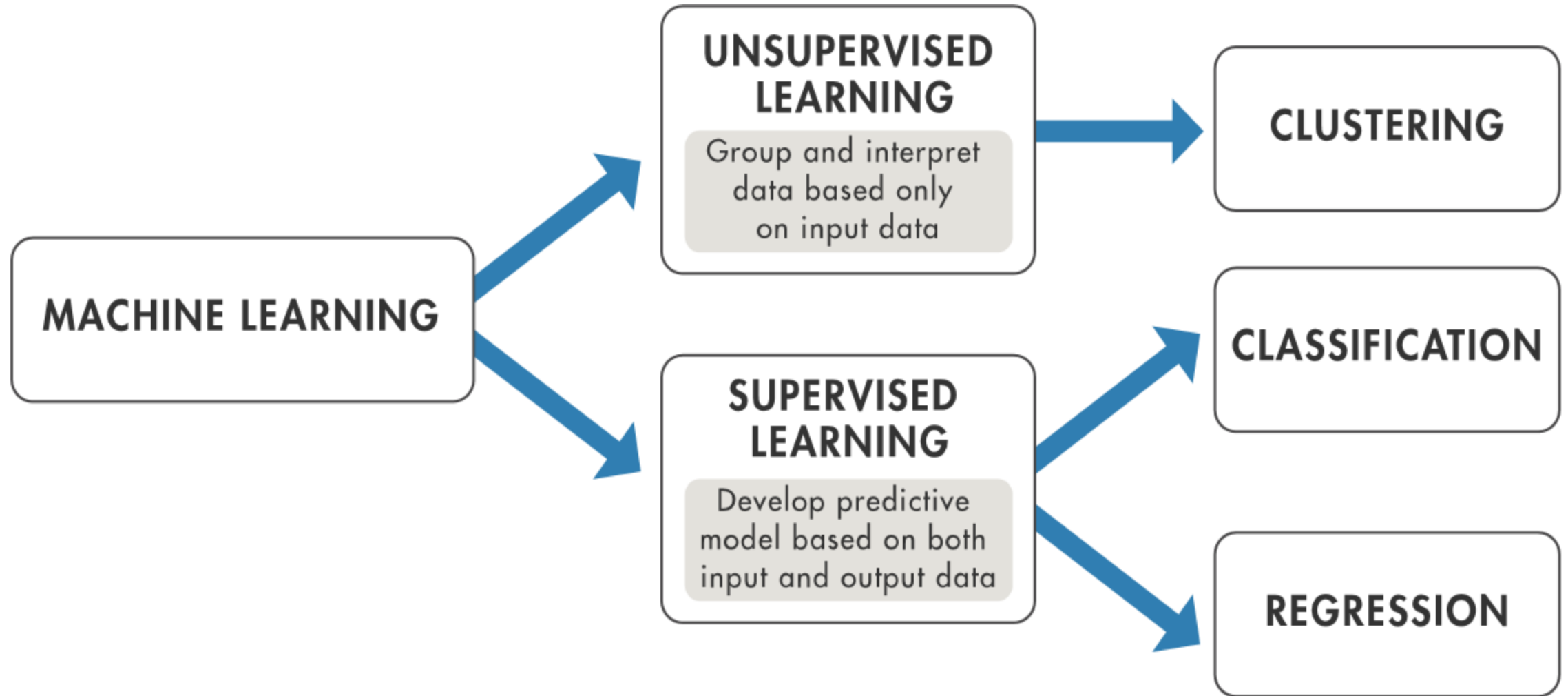
Subset of ML which make the computation of multi-layer neural networks feasible.



Machine Learning

Machine learning is an application of AI that provides systems the ability to ***automatically learn*** and improve from experience ***without being explicitly programmed.***

ML algorithms are often categorized as supervised learning and unsupervised learning.



Supervised learning

In Supervised Learning, algorithms learn from labeled data, which means *both input and desired output data are provided*.

After training, the algorithm should be able to classify a new unlabeled data based on its features.

Some applications of supervised learning:
Diabetes prediction, House Price Prediction,
etc.



Classification

Classification predicts the a category the data belongs to.

Algorithms:

- . Decision tree.
- . Naïve Bayes.
- . **Logistic regression.**

Logistic regression

BINARY CLASSIFICATION

