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## Learning Unit - Introduction to Deep Learning

# Machine Learning vs Deep Learning

- ❑ In traditional Machine learning techniques, most of the features need to be identified by an domain expert in order to reduce the complexity of the data and make patterns more visible for learning algorithms to work.

Unfortunately, **feature extraction** is a **separate** and often a **manual component** in machine learning pipeline and it is **time-consuming**.

- ❑ The biggest advantage of Deep Learning algorithms are that they **try to learn features from data** in an **incremental manner**. As discussed before, the model will first learn the basic constituents/low-level features before moving on to the high level ones i.e it learns on ITS OWN!

This **eliminates the need of domain expertise and hard core feature extraction**.

Have a look at the next figure to understand this better.



Slide 13

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