

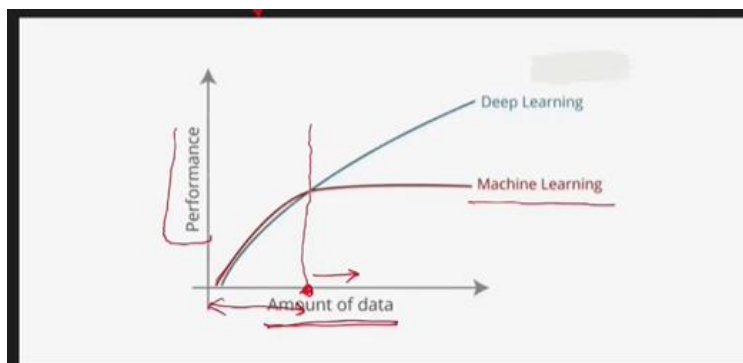
Machine Learning Vs Deep Learning

1.Data Dependency

Deep Learning Needs lot of data comparision to Machine Learning.

Less Data ML Beats DL ML > DL

More Data DL Beats ML DL > ML



2.Hardware Dependency

DL needs costly hardware for GPU & even Memory

ML can be done in CPU also

3.Training Time

DL takes a lot of time to train

DL training time is very High

Lyk even For Research work months tak lageh hai Model train hone mai

Whereass in ML it takes some minutes to train.

4.) Feature Selection

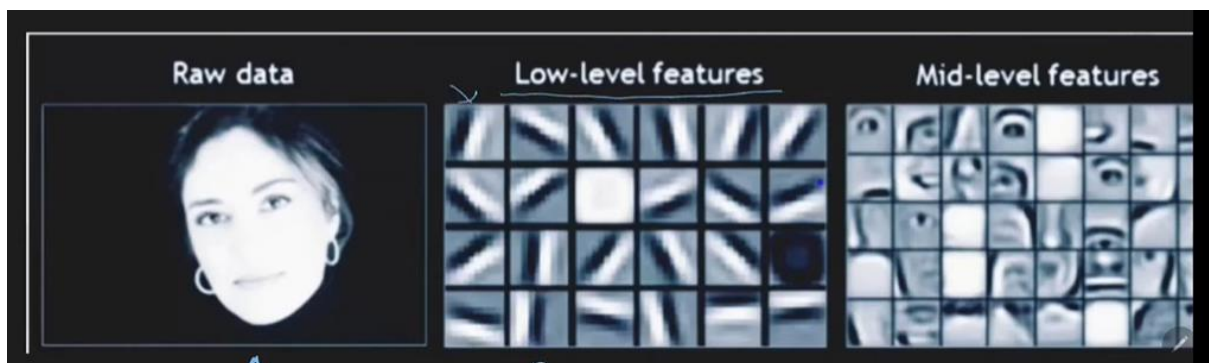
In DL automatically it extracts relevant features

In ML we have to extract features manually.

In DL

Start mai Low Level Features Extract krrhe then

Mid Level Features extract krrhe



5.) Interpretability

As we know features are extracted automatically,

But what this features are how to interpret that ? ki vo feature hai kya ?e.g: dog hai ki cat etc .

DL yeah kaam automatically krdega

But yeah Interpretability jo hai

Deep Learning andar kaise interpret krrha yeah Pura Black Box hai

But humme kabhi smjhega ya pata nahi chalega ki

Interpret kaise krrha hai Algorithm

This is Big Flaw of Deep Learning .

Deep Learning fail krta hai yaha

Whereass Machine Learning interpretability batata hai Very highly ki kaise vo Answer deraha ki output yeah hai .

Deep Learning pura Black Box hai .

Conclusion:

*In some scenario ML is better than DL
DL can't replace ML fully.*