

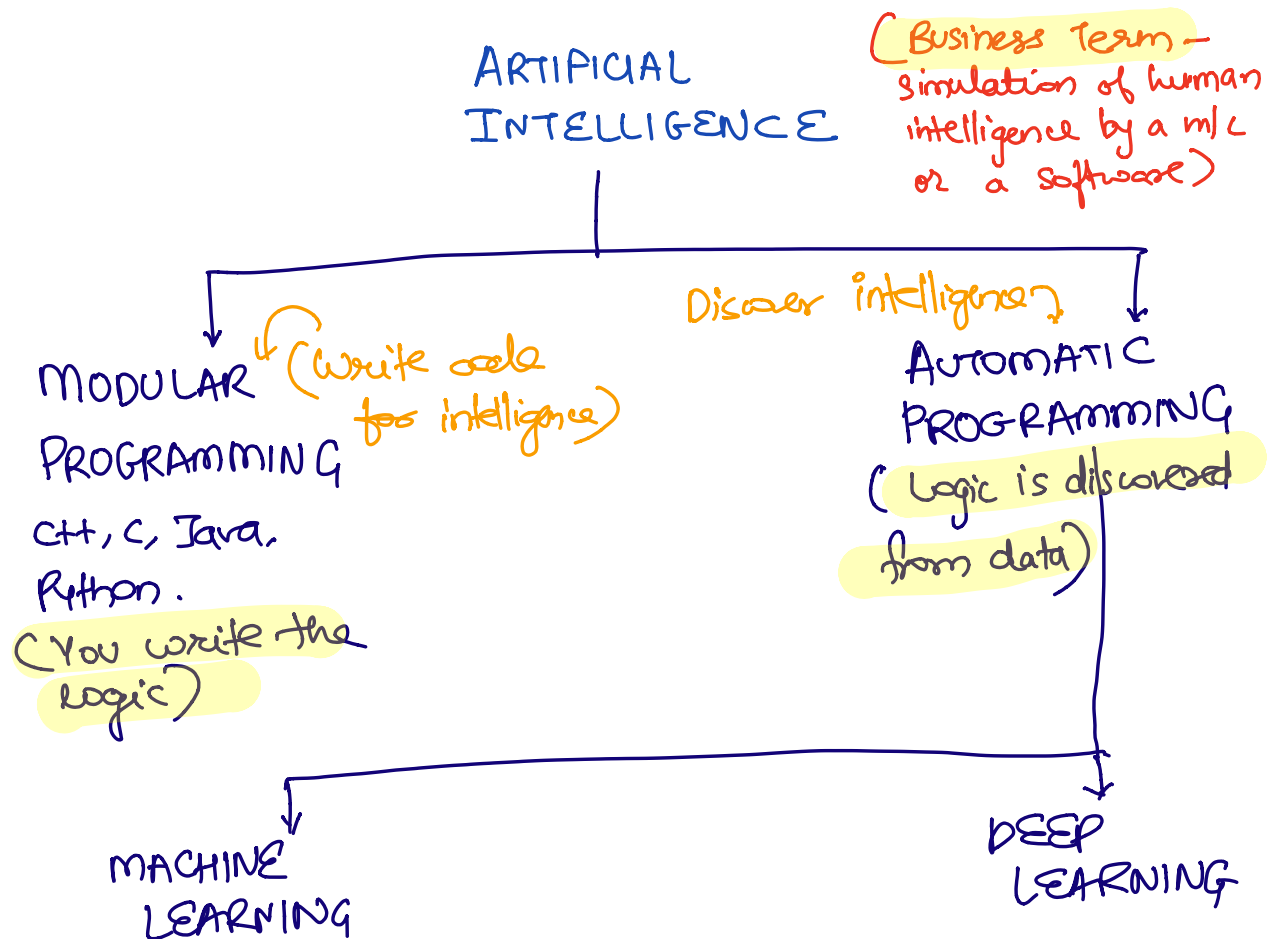
ARTIFICIAL INTELLIGENCE ?

MACHINE LEARNING ?

DEEP LEARNING ?

Data Mining ?

Same!



machine Learning :- Implementation technique to extract intelligence out of the data using

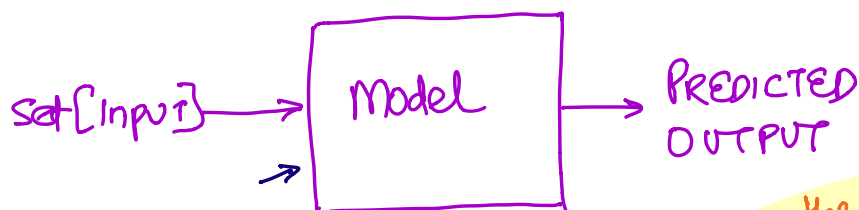
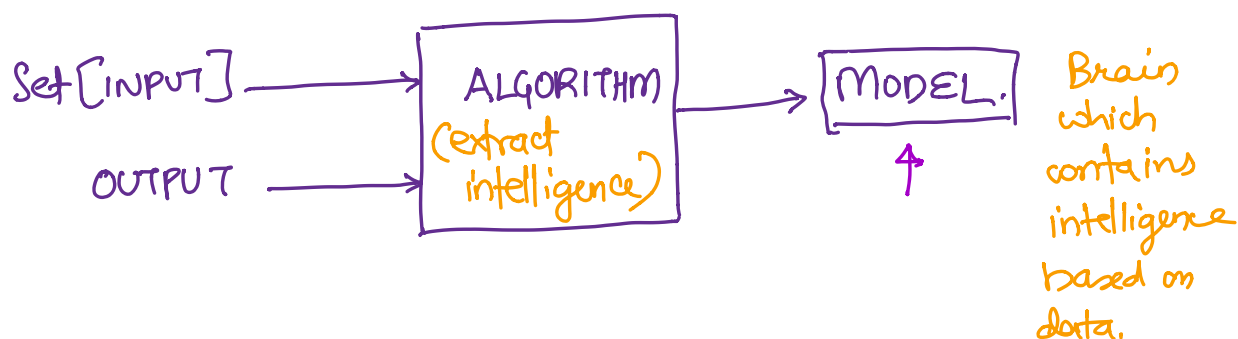
Linear Regression

K-NN

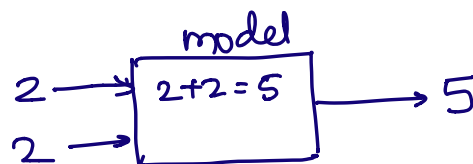
Market Basket

DATA MINING ALGORITHMS

&  
STATISTICAL FORMULAE.



YOUR MODEL IS A **STATIC MODEL.**

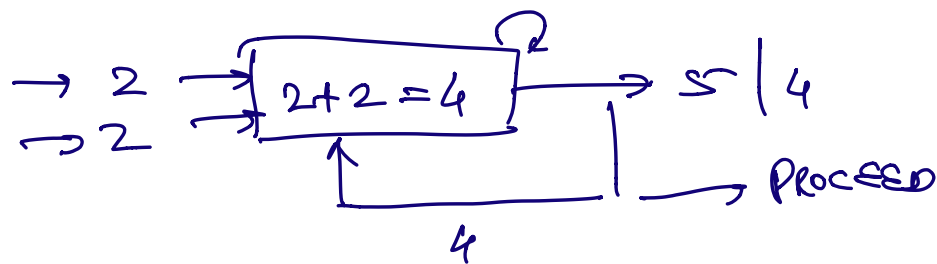
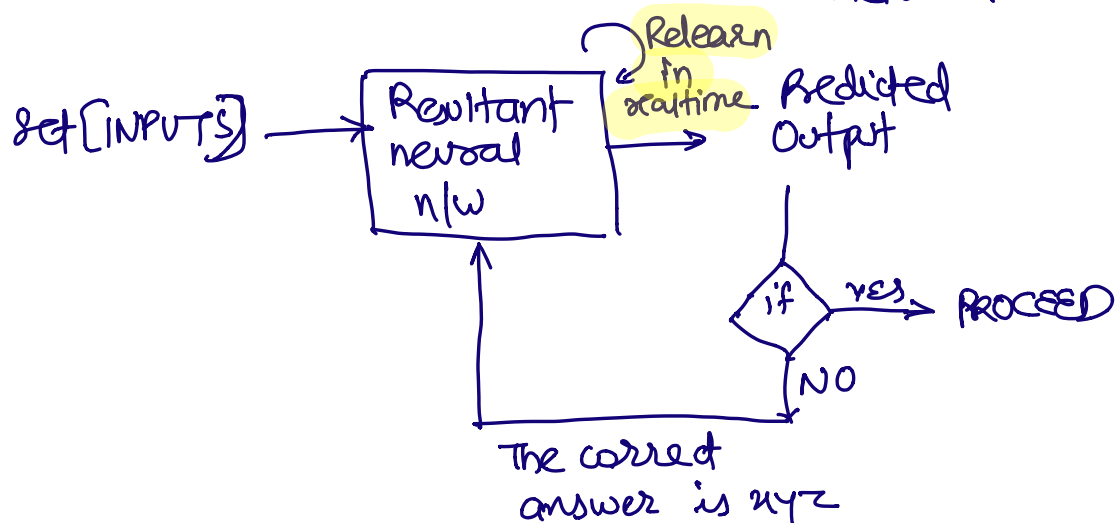
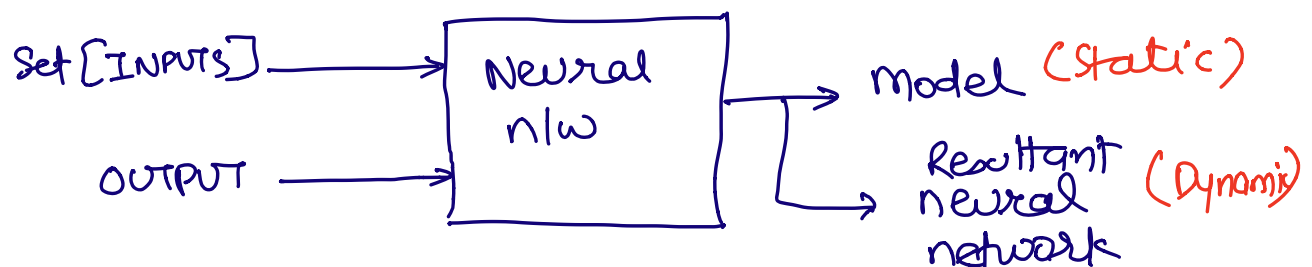


but the user has no medium to explain model whether the ans is correct or wrong.

once the model create it cannot change the thinking.

DEEP LEARNING : Implementation technique to extract intelligence out of the data using

## NEURAL NETWORK



Data Mining

Machine Learning

Similarity,

Both use the same algorithms to extract intelligence out of the data.

Difference,

Applicable only for  
STRUCTURED DATA

② Not compatible with distributed systems.  
Doesn't support Bigdata

① applicable for all kinds of data  
① Structured data  
② Semi-structured data  
③ un-structured data

② Compatible with distributed systems.  
Supports Bigdata.

## Machine Learning:

R (<sup>free</sup>opensource)

- ① R has less support to Bigdata.

(development phase)

RHadoop } → Distributed  
SparkR } processing

The above is not enterprise-ready.

- ② Best in scenario where data is placed in single machine

FREE

Python (<sup>free</sup>opensource)

Python has many rich libraries that support Bigdata env.

Pyspark } → Distributed  
PythonHadoop } processing  
using Streaming }

It has enterprise-grade packages.

FREE

SAS

SAS offers everything required for ML in Bigdata env.

Its costly!  
License fee

PAID

## Expectations :-

① Basic knowledge on Python

✓ Basics

✓ Collections (Lists, Dictionary, Tuple, Set)

- numpy basics (1D array, 2D array)

- pandas basics (Data wrangling & manipulation)

(Basics on EDA)

↳ visual EDA  
using graph.

② Coding in Jupyter Notebook.

Python Basics from Python Cheatsheet !

① Variables and Strings

② Lists

③ Tuples

④ Dictionary

⑤ Set

⑥ if statements

⑦ for loop

⑧ Functions