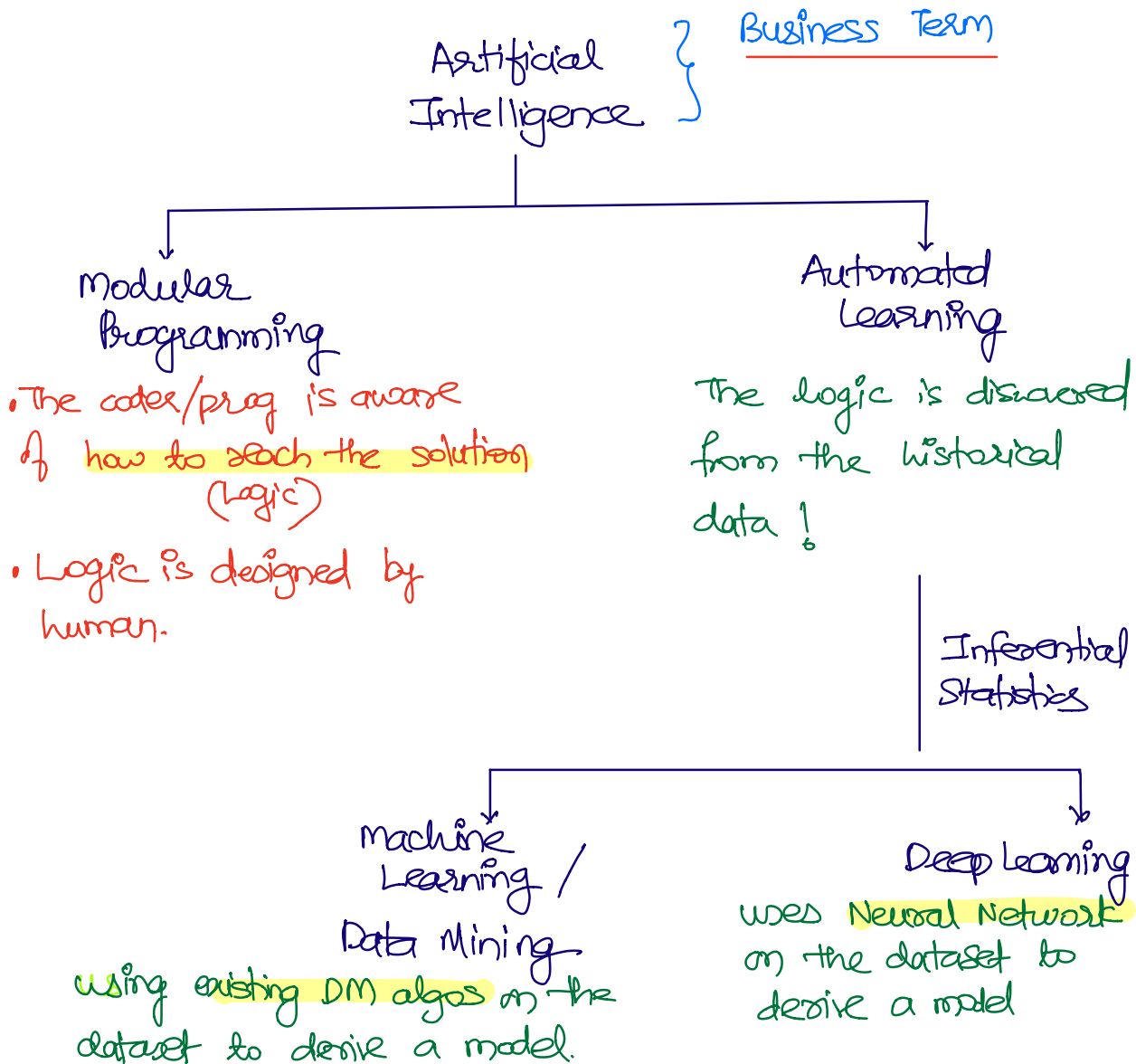


Agenda

model Building and Evaluation

Inferential Statistics

Prediction, Discovery, Association,
Grouping/Categorizing/Classification



Algo refers to the standard data mining algorithms.

Machine Learning

uses algo. to get the logic from the historical data.

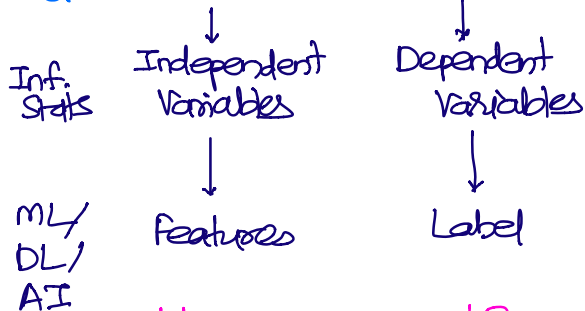
Supervised Learning

col1	col2	col3
2	2	4
3	2	6
12	1	12
13	2	26

Extracting Logic
↓
model

50:50 split

expects your dataset to have Question and Answers



col1, col2
adSpend, admSpend,
maroSpend, state

col3
Profit

"Exploring all generated logics"

unsupervised Learning

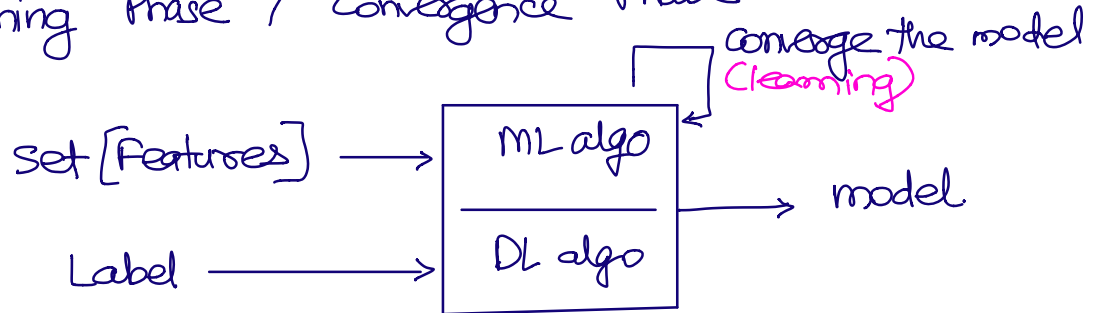
Discovering
- Pattern
- Association

col1	col2	col3	col4
1	2	3	4
5	6	7	8
9	11	17	22

random dataset with hidden domain meaning

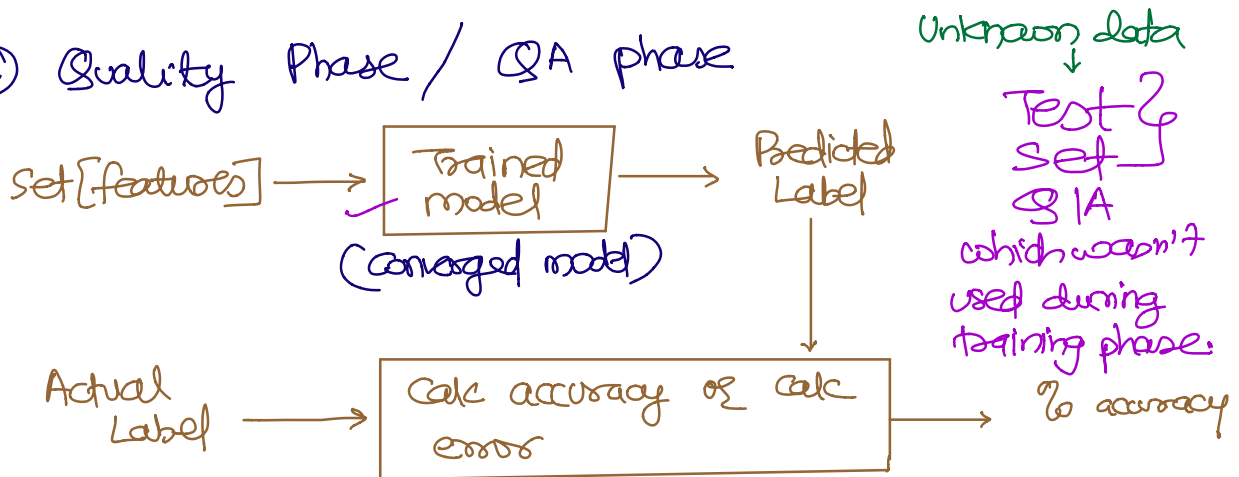
Phases of machine Learning / Inferential Stats / DL

① Training Phase / Convergence Phase



Goal of training phase is to create a model.

② Quality Phase / QA phase



Goal of QA is to understand the reliability of the model's prediction.

③ Deployment :

* SUSPENSE *

RULE

ML
Supervised
Learning Algorithms

Observe Label
column!

Regression
Algorithms

Label → Continuous
Numerical
Data.

Classification
Algorithms

Label → Categorical,
Ordinal,
Discrete