Deep Learning Ch1 :##

understanding the world as un hierarchy of concepts. If we draw graph snowing the dependencies between these concepts, this graph is deep learning

DEt

AI systems meed the ability of acquiring their own knowledge by extracting pattents from raw data. This capability is known as machine learning.

logistic regression
(naive Bayes

the performance of these simple ML algorithms depends heavily on the representation of the data they are given.

DEF

Each piece of information included in the representation of the phenomenon (eg person) is called [feature]

02.

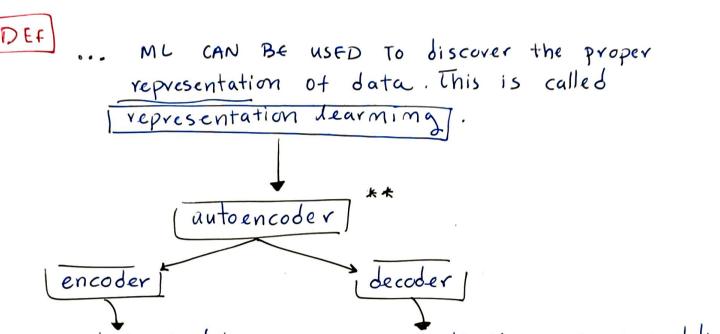
Feature is an individual Property or characteristic of a phemomemom. Legen 6/

BLACK: helping (drawing, bexes

Bue: main text

GREEN: formulas

RED: Attention points



converts imput data

converts the new representation to different representation. back into the original format.

PROGRAMMING BASED ON WHAT WE LEARNED

- LINEAR REGRESSION
- 2. NAIVE BAYES
- 3. AUTOENCODER

EXERCISE 1

PROGRAM ABOVE FROM SCRATCH IN PYTHON.

USING ZYTHOW LIBERON.

To KEEP

- MLE is very important
- · Python Data Frame | nuds clear understanding on what are the data types below.

DEF

Factors of variation are the underlying causes in the dataset that account for differences in the features and observed outcomes.

example

angle of view, light idensity etc.

[Importance in ML

- 1. Model generalization
- 2. Feature engineering
- 3. Data Augmentation.