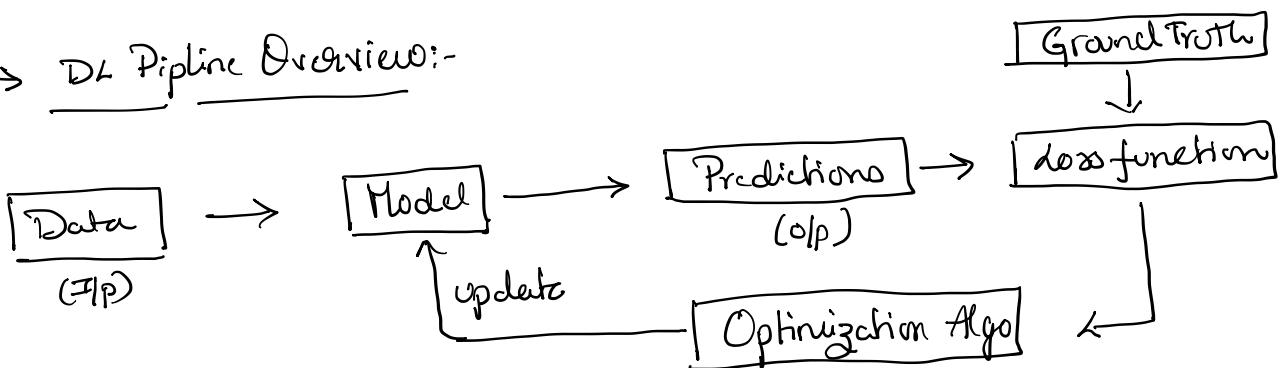
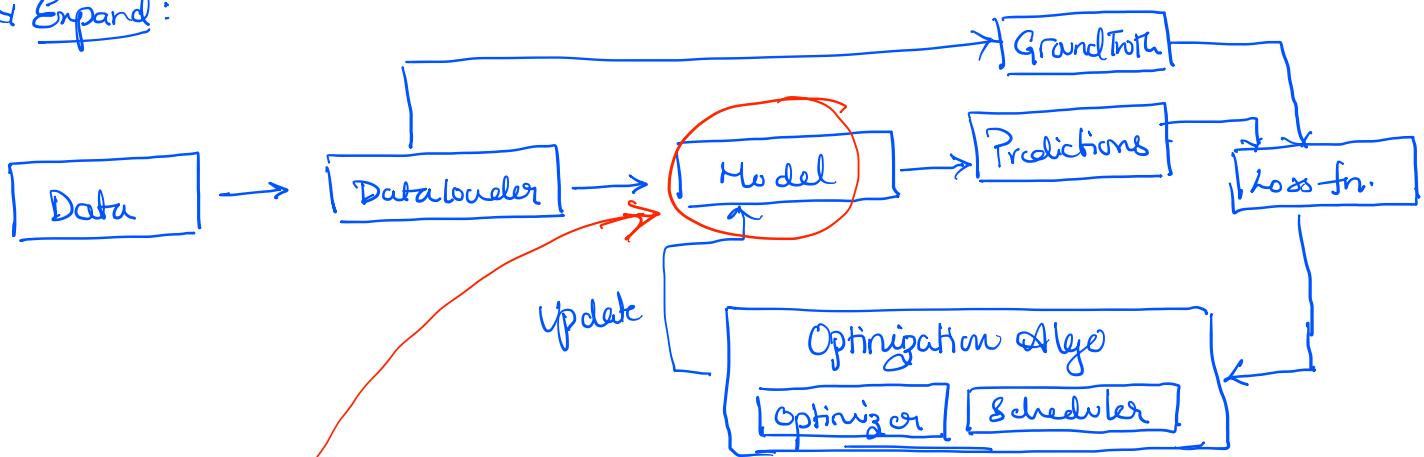


Hyperparameters:

DL Pipeline Overview:-



Expand:



Model Parameters

$\Rightarrow (\underline{w})$

$$\underline{y} = \underline{w} \cdot \underline{x} + b$$

model parameters.

Hyper-parameters -

non-learnable

use defined

or

derived

mostly fixed  
in the training  
process.

learnable

model parameters  
( $\underline{w}$ )

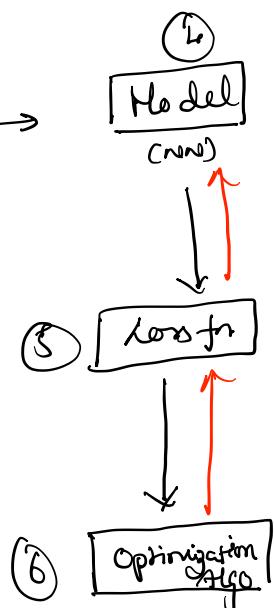
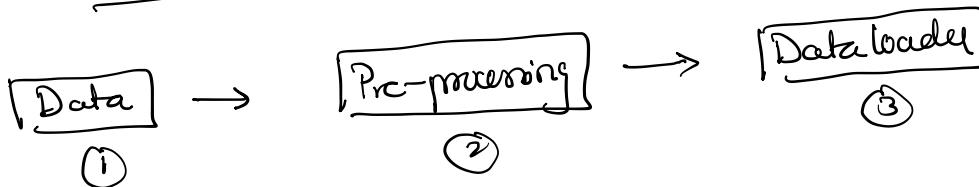
(weights & biases  
of the model)

Def: Parameters which control the training process but are not directly learned as a result of training.

- What are they:
- Epochs
  - Batch size
  - Type of optimizer.
  - Learning rate
  - LR decay.
  - Stopping condition.
  - LR scheduler
  - :

Can be grouped according to various blocks / sections of the deep learning Pipeline //.

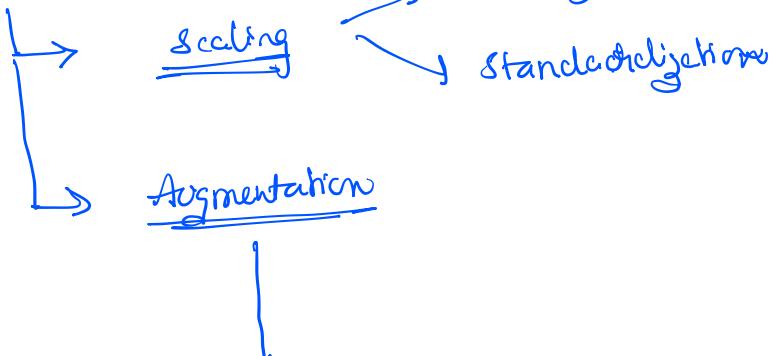
Modified Sections / Blocks of DL Pipeline:



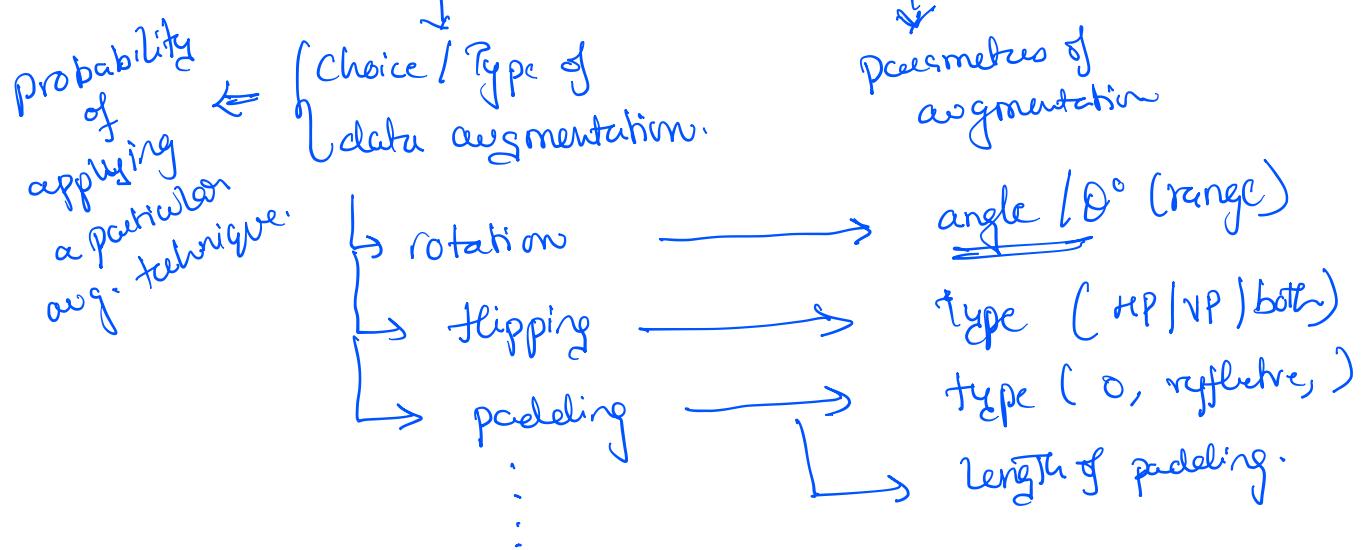
(7) Miscellaneous.

(1) - Data:

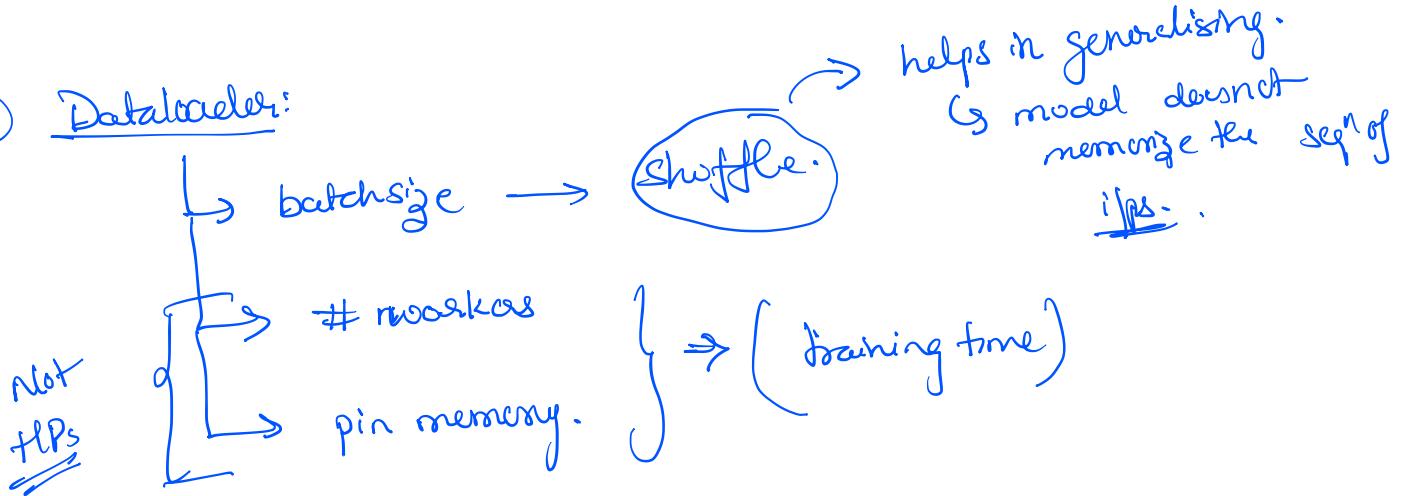
(2) - Preprocessing:



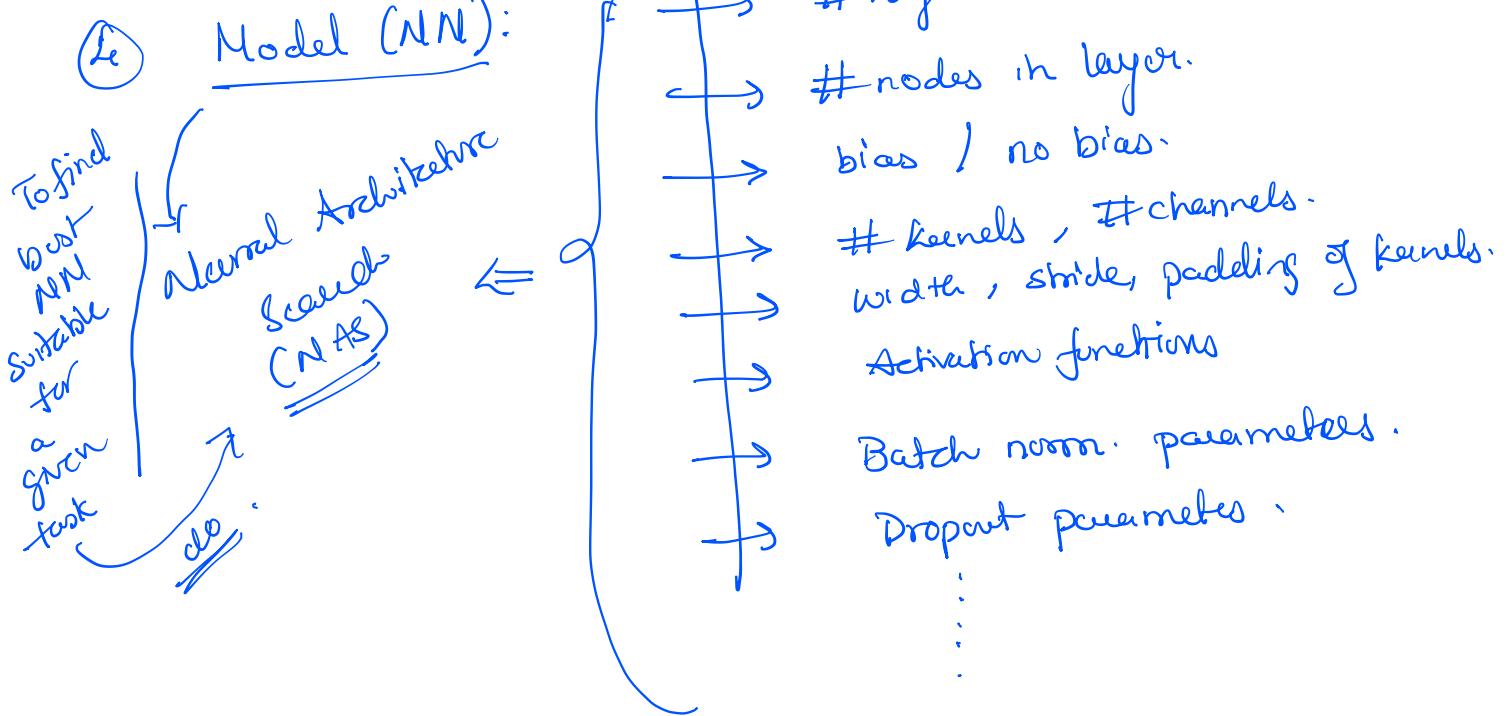
$$\rightarrow \mu, \Sigma$$



### ③ DataLoader:

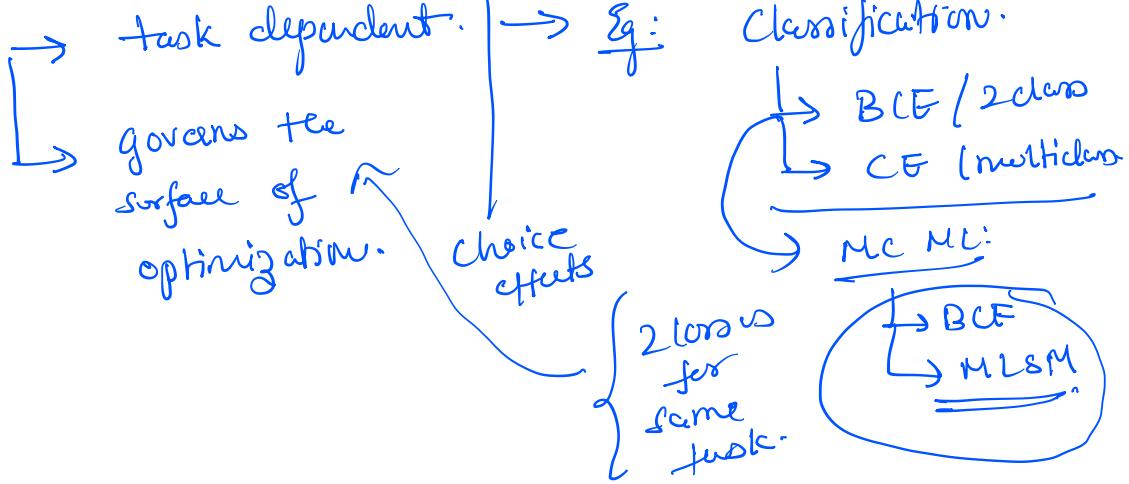


### ④ Model (NN):



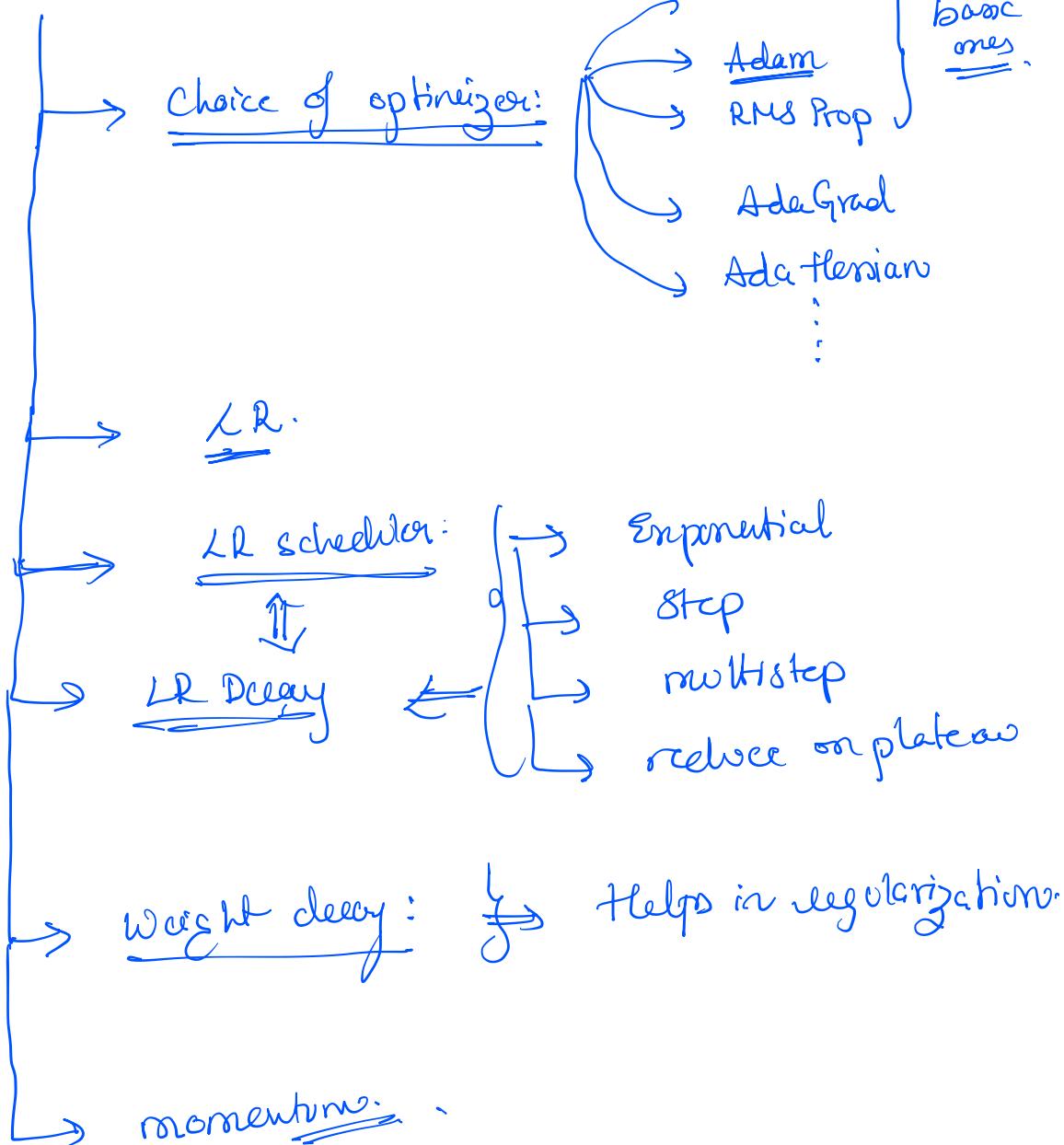
⑤

Loss:



⑥

Optimization Algo:



⑦

Mise:

- Epochs.
- stop conditions