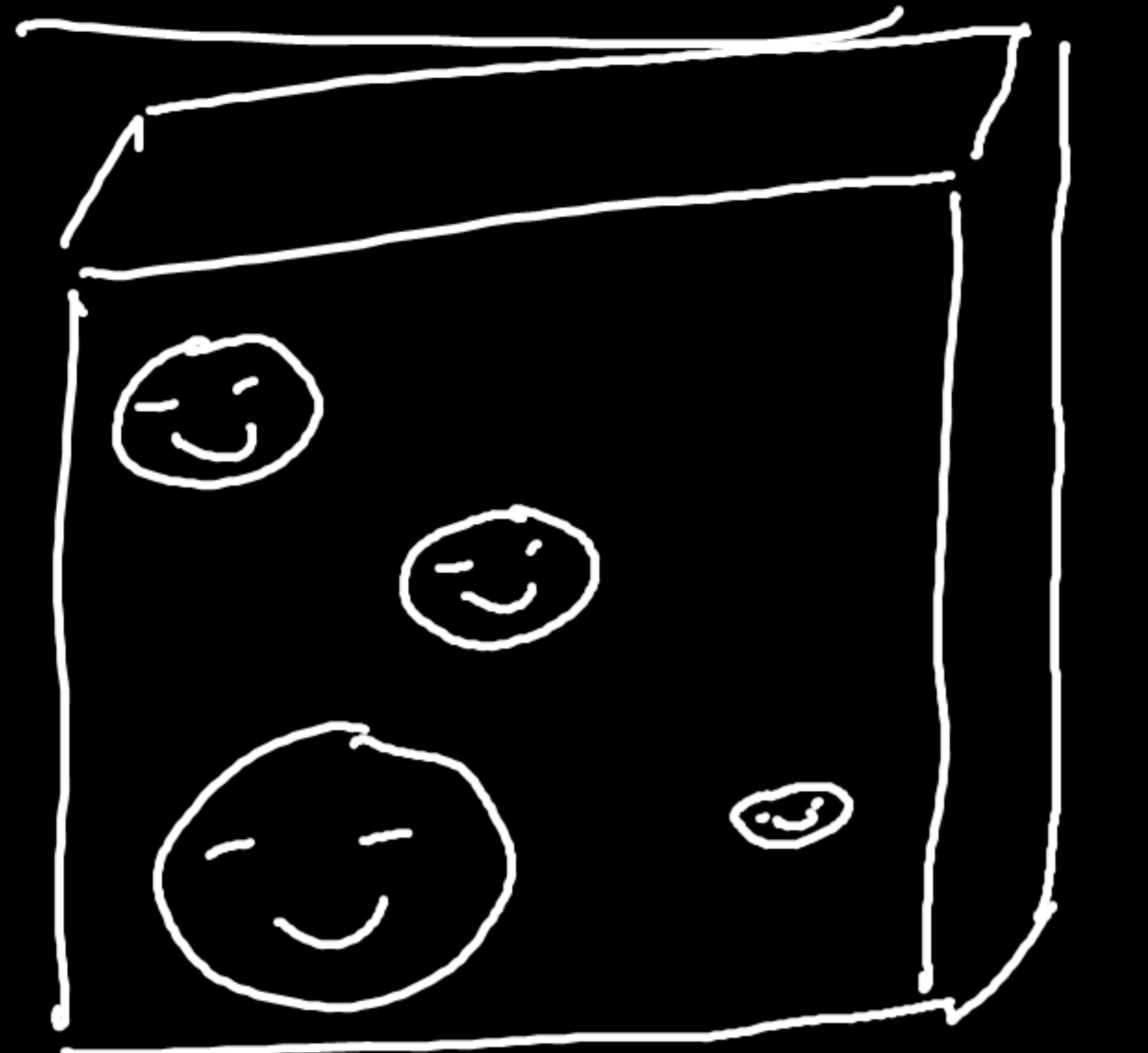


Max Pooling



→ layer

→ Inspiration - biological

→ Location variance

↓
Location in-variance

→ Scale invariance

→ rotation "

→ zoom "

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Santoshkumar Pa... to Hosts and panelists

SP yes

Santoshkumar Pa... to Hosts and panelists

SP what in case of 5 x ...will it take all features of input pixel

Nagarajan K to Hosts and panelists

NK Hi sir max pooling us used only for eliminating larger size of data received ?

Santoshkumar Pa... to Hosts and panelists

SP ok.... Sir

Usha Kumari to Hosts and panelists

UK yes

Vivek Shinde to Hosts and panelists

VS yes

Nagarajan K to Hosts and panelists

NK ok sir

Santoshkumar Pa... to Hosts and panelists

SP but this doesn't mean there is loss of some features and pixel patterns ?

Who can see your messages? Recording on

To: Hosts and panelists

Type message here...

1	2	3			
1	0 4	5 6	7	8	
2	5 9	4 9	10	11	
3	7 8	3 12	13	14	
4	6 1	2 15	16	30	
5	1 3	1 20	21	25	
6	4 5	0 60	18	180	

max pooling
 $\xrightarrow{\text{Size} = (2, 2)}$
 $\xrightarrow{\text{Strides} = 2}$
 $\xrightarrow{\text{type} = \text{max}}$
 $(6 \times 6) \rightarrow 3 \times 3$

9	9	11
8	15	30
5	60	180

3×3

max pooling

Non-overlapping → huge level of deficit → max pooling
 receptive field → eliminate waste

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is loss of some features and pixel patterns ?

ya....pixel size reduced for fast computations

Usha Kumari to Hosts and panelists 11

Santoshkumar Pa... to Hosts and panelists 8

Usha Kumari to Hosts and panelists 15

30

Santoshkumar Pa... to Hosts and panelists yes

Usha Kumari to Hosts and panelists yes sir

PRAMOD K. to Hosts and panelists PK yes

Nagarajan K to Hosts and panelists NK translation variance point can you explain once sir

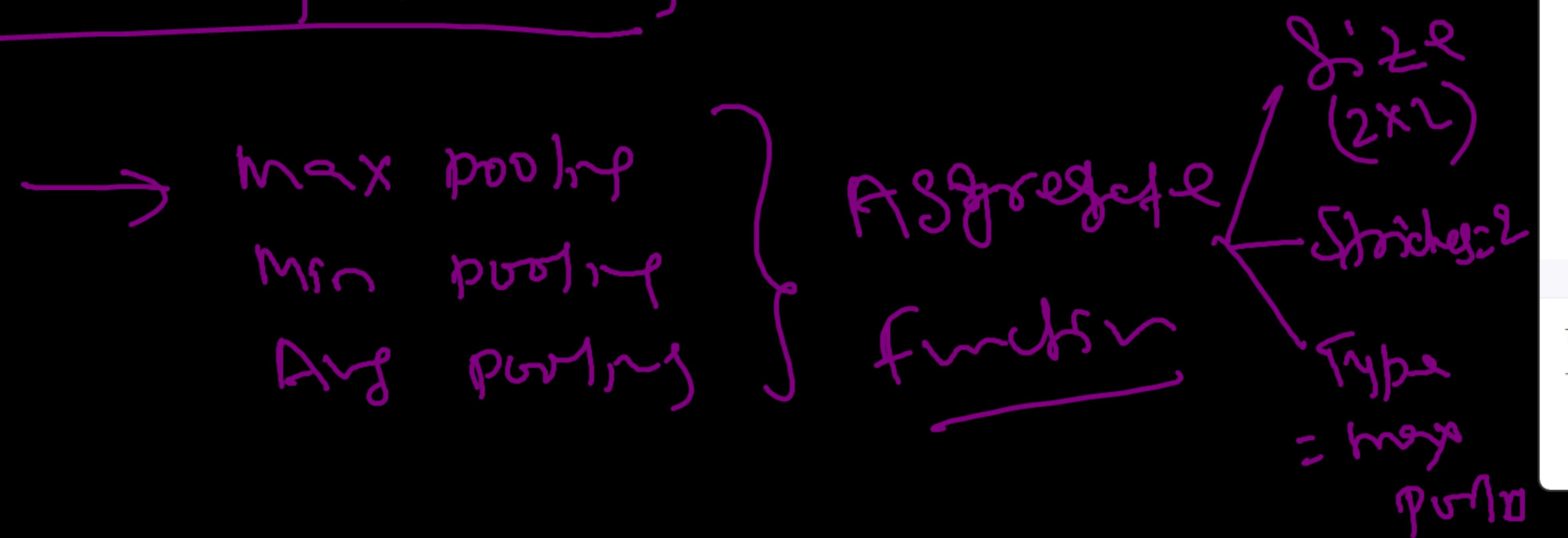
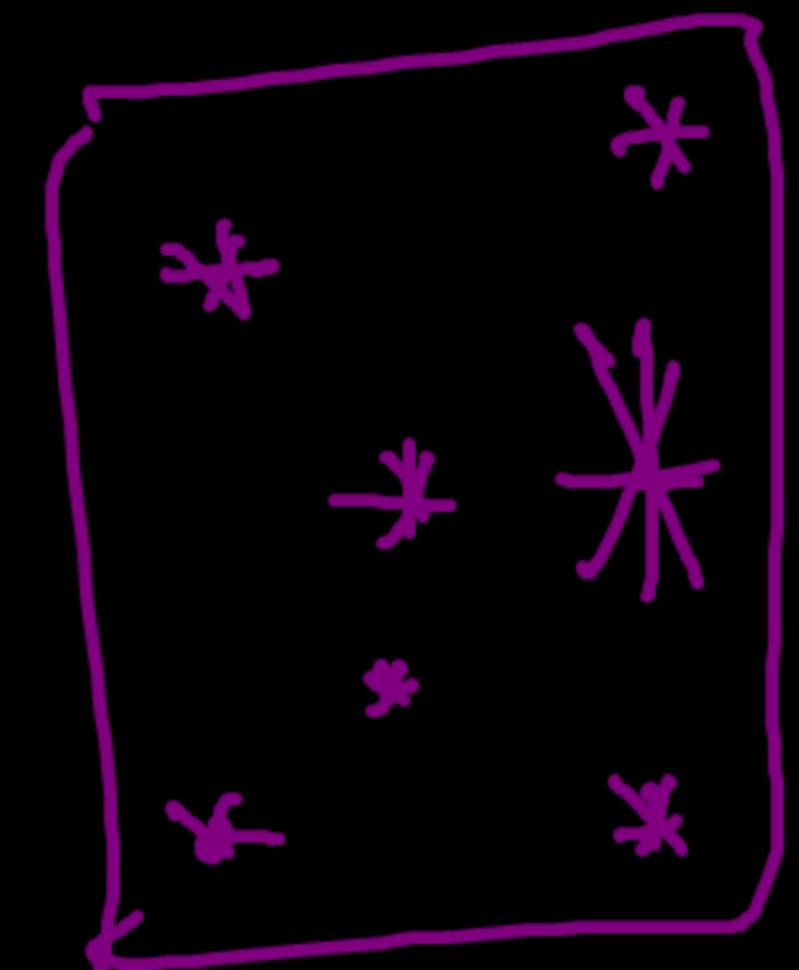
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Type message here...

Adv :-

- ① Reduce size
- ② Translation Invariance
- ③ Enhanced feature
only in case of MAX pooling
- ④ No need of training



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Usha Kumari to Hosts and panelists
UK 15
30

Santoshkumar Pa... to Hosts and panelists
SP yes

Usha Kumari to Hosts and panelists
UK yes sir

PRAMOD K. to Hosts and panelists
PK yes

Nagarajan K to Hosts and panelists
NK translation variance point can you explain once sir

Santoshkumar Pa... to Hosts and panelists
SP yes Sir

that means max pooling is like adding a butter on top of stride for model efficiency?

Usha Kumari to Hosts and panelists
UK yes sir clear

Who can see your messages? Recording on

To: Hosts and panelists

Type message here...