Mounal Metwork entrancement over filting - pata augmentation / more data

- But elinormali Lation (more layer) underfillig - Compten model / deepermodel

- Data augmentation, mora deuta

- Hp tuning!

ر د من سن گرمدر کی حد - Train - acc - Test - ace over filling _____ Troin acc Train-data ace, 1051 /epich

done

test-dat acc-Desir

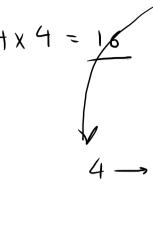
dev + validation- set * 0,2 : validation! Train 83% Trainace

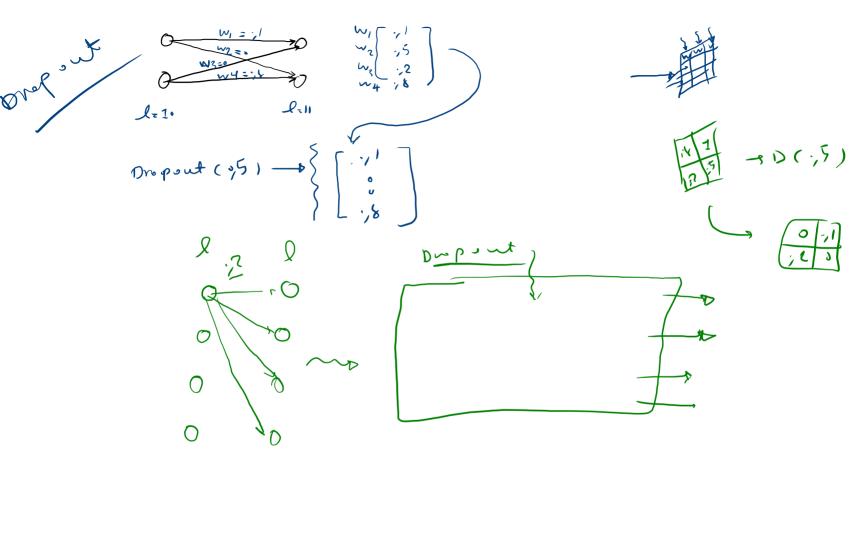
Train epoch 1 20% 20 Frainti-60 →Tra.L 60% 20% 20 Train

orch _ d Application

proposit (?25) layer: n+1 lager = n

Drepout





train - a cc = 1.90 train - acc => 1/95 Dropout =>

Test - acc -> 1/70 - d BUT Test-acc = 1.85 generali'd a tion

a(Batelphormali Lation)

$$\frac{net}{net} = w_1 x_1 + w_2 x_2 + \cdots$$

$$net = w_1 x_2 + \cdots$$

0 = 8 6(net) + B

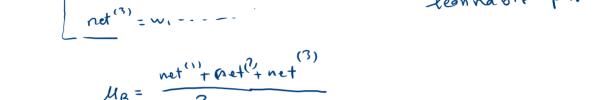
$$net = w_1 \times \cdots \times \cdots$$

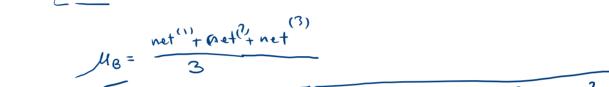
$$net^{(3)} = w_1 - \cdots - \cdots$$

$$net^{(3)} = w_1 - \cdots - \cdots$$

$$net^{(1)} + met^{(2)} + net^{(3)}$$

 $net^2 = \frac{net^2 - \mu_B}{6n}$ $net^3 = \frac{net^{(3)} - \mu_B}{6n}$





$$M_{B} = \frac{\text{net}^{(1)} + \text{net}^{(2)} + \text{net}^{(3)}}{3}$$

$$G_{B} = \sqrt{\frac{1}{3} \left(\text{net}^{(1)} + \text{no} \right)^{2} + \left(\text{net}^{(2)} + \text{ng} \right)^{2} + \left(\text{net}^{(3)} - \text{ng} \right)^{2}}$$

leannable parameters

FM W3 neti= WiXi+ WZX2+ (3)

