



800

Region Brobosal Architecture External RONN 00FE Externel Fast RCNN Faster RCNN RPN

Bias - High

Ply=0 XD= NXII 1=

NOOFP + 6(n + 9700) N

P(y=0|x) =

Let

6)

(d)

Call Dog & Dog ang

Variance - Low Preactivation = a(x) = w,x, + w2x2+b. Output = h(x) = h(cu,x, + wxx+ 6)

District of otherwise lefel

- 1 21th

(iv) y; (wx; +b) >=0 for all i (e)



(a) Kay -> Nx100x36 = 3600n - 1000x36 = 3600n - 1000x36 = 3600n - 1000x36 = 2500n Wij - dij - nxnx ding = 36 n2 ∀ig → lig -> nxnx ding = 136n² 10 weighted values - nxnxdim = 25 n2 Total = 661 + (7200+25004) stari = 61n + 9780n - (6ln +9700)n = 1070625 0/3. WK > 36×100 - 2 dim = 36) *(P)* Uq → 36×100 dding=369 Wy → 25×100 ddiny=259 Total = (36+36+25) × (00 = 9700 barameters 140 There are 2 scalar values to word (c) 2 scalar values are present for each foot in one layer. -- Total 2K = 2x4 = 8 .. Total 2n = 150 (C) i) Total multiplication operation = 100x200+200x100 (d) := 40000 Bbs ii) Total trainable baranators = 100×200 + 200×100

+100+200 = 40300

	classmate
	Date
	200300
	111) Total = 4x40300 +40700 +4n = 50300
	also as The district of the
	FFN Self Layer
	atleution Norm
(4) (a)	$\mathcal{J}(\theta) = \underbrace{1}_{N} \underbrace{\sum_{i=1}^{N} \left(\sigma^{T} \chi^{(i)} + b y^{(i)} \right)}_{i} + \underbrace{1}_{2} \sigma^{T} A \theta$
17.57	N ial
E	
	(S) Regree
	J(8) = 2 [1 5 (07x10 + by 10) + 107 A 0]
	00 L
i i	= 1 5 x(i) + A0
lig.	N EI
^ -	
(6)	Obes J (0) = O (dosed form)
	$A = A^{-1}/1 \leq \chi^{(i)} = -1/A^{-1} \leq \chi^{(i)}$
	$0 = -A^{-1} \left(\sum_{i=1}^{N} \chi^{(i)} \right) = -1 \left(A^{-1} \sum_{i=1}^{N} \chi^{(i)} \right)$
(c)	GPT
	Reason: Its ability to generate texts whomas BERT cannot.
	BERT Cannot.
للم	Single representation can be obtained in 2 ciays:
(0)	Lingte representation and the contract in a congression
(i)	
+	

dassmate blood to vic Simply averages context and Center representation to get a star single representation. 300

000

171.00

Word2Vec

10 2 1 54) 1 1 5 AC

3 A 31 + ("pd + "20)

(d)