(Corvs.) Kimproxing DNN, (Hy) (week 1)	= 2) week	PAGE DATE
* improving DNN, (Hy	perparameters tuni	My reg. Loptimization)
(week)	Market State	ash of mode
MILLER		
when being NN	ive have alot of de	ecisions ex: numal layers
num of hidden	units . learning	rate act func
60	2 2	V 10 y 49 B & of the world will be the
		first training algorithms
- H	W ZCOS ON	training set then use dev
Cro	ss volidation to	See which of many diff
		els performs best on your
the state of the s	'Dev" der Si	et Other after having
	tinal man	ed weevelight the testsel
Commence of the	A Charles March	
-> Bias /Variance		
- Andrew Commission		ALLE TRUCKSON AND A SECOND
WXXXX.	→ × ×	× × × × × × × × × × × × × × × × × × ×
No. 19		Fright A
(*.)	Toolyx A	1::-/× >
- high bias	. Just right	· high langue
· under litting		overfitting.
4. 3. 4. 3. 4. 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		
. Evain set: 1%	15%	15% high bias
Dev set: 11%	1167.	30 1/1 - high Variance
high variance		
	Gwhen algorith	
	loesn't do well on th	e
	wining set.	
0.5% -> low bias	3 we search for the	15
ty -> low varian		

	PAGE	PAGE DATE
	Basic recipe for ML	and work
3	High bias? Sigger Neath (Training data Train Torreson Performance) NN archeticte	vort
3	Chaining data 218 train longer	CONT.
		ive search
3	lafter fitting	
3	가 보고 있는 그 사람들이 가게 되는 것이 되었다. 그 그는 것은 것이 없는 것이 없는 것이 없는 것이 없다.	a 1 f (to topia)
	Stoevaluse that 1 look bry	e de la train) egularization
	at (dev set performance) . NN	arch. search
	That I have	<u> </u>
3	Bras variance crade off: reduce or in	c. bigs or varyance
3	for two Aris PL PV	fecting the other one
	regularization.	
	for ex: in logistic regression we try to minin	TRE The Cost Fun J.
*	2m	Wally 20 TION DO rayoft
		190manton Farms
3	$\frac{1}{1} \frac{1}{2} \frac{1}$	
	2 h 2 m	
3		And the second s
		3. 330 1 × 3
a		1. W. 3747 - 1.15
1		The state of the s

- Drop and regulization:
- The state of the
- Company of the second of the
-> Othe regulization 20chs.
- othe regulization Lechs. Early stopping & Data enginentation
Normanzing inputs.
Normalizing inputs. Normalizing the inputs is one of the techniques that To used to speed up the training
Is used to speed up The training
· Max man street 11) hards contraction on so
X= x Two steps
12 D to subtract and 60 to zero
out the mean
X, M- LE X(i)
X=X=M
2) Mornalize the Variance
62 = 1/2 × ×2 = × /= 6
; : 1
when features are on similar scales not from 1-1000
& G-1 but mostly from -1 -1 or about simlar variance
that Just makes your cost function i easier 4 loster-to aptimize
X2:-11 Similar X2: 0 Softimization
X31 1-2