	Date:/
27 Ib	MDLAQUIZ Doda primado mois
1.04	ADVANT PASTE
	ADVAIT RASTE
. :0	Man 2019111027 (C) 1 5 (C) 1 5 (C) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1)	An AI/ML application that I bound very interesting is the generation of Aritificial faces by studying real ones.
	interesting is the generation of Aritificial faces
	by sudying red ones.
1	The denotited faces look is very reast arising
	ALLAS ALLE COS ESCRITURE TO TOUR PLAN ALBERTALES
	The technique used to achieve this the is called GAN which stands for Generative Adversarial
	GAN which stands for Generative Adversarial
	NOTION. This Larks by banking Two convolutions
	neural nets. One called the generator and other
	neural nets. One called the generator and other the discriminator. The generator creates an image
	image. The discriminator is fed that image alongs in real images and it tries to distinguish real from falle ones. The generator thus tries to fool the
	real images and it tries to distinguish real from
	Falle ones. The generator thus hies to fool the
	discriminator by gotting better every time
	discriminator by gotting better even time. Tollowing is an example of a double foedback loop.
2)	
9	
a)	$\frac{1}{2}y = 7x^2 + 31x + 27$ $\alpha = 7$, $b = 31$, $c = 27$
1.\	u' = 28x + 31 $y'' = 14$
b)	y' = 28x + 31, $y'' = 14$
	$f(x) = 27$ $y-y' = 7x^2 + 3x - 4$
	100 6/15 g-g= 1x + 3x = 9
	$\frac{4x^{3}-69}{4x^{3}-1}$ $\frac{4x^{3}-69}{4x^{3}$
	99 (0)
	$\frac{1}{4}$
	$\frac{f(4)}{f(4)} = \frac{18}{68}$
	(3) = 08 $(4) = 120$
	$(\tau) = (86)$

The number of features corresponds to the dimensionality of the data.

Now some reatures might be redundant or some may add unnecessary noise 12 randomness to the data. Therefore if we find and chouse to a ignore as such teatures.

We can better fit our model and also reduce over complicating our model.

when we tak: about alphabets in a language there is no correspondence between the seperate alphabets of the two languages.

The language with 180 alphabets to convey same information in only 26 alphabets.

There is no redundancy present in the language.
When you are thinking in your mother longue
you think in terms of meaning & not
Alphabets.

Hence you don't perform dimensionality reduction.

				Date:	
	Your Nett				
	4)				
	3 a) 21, y,	and the second s	0.7		
_	22 42	27	27	127	
1	X3 Y3 X4 Y4	15	15		
1	25 45	9 ,	9		
	26 y6	135	125	A	
			12		
	b) Bias2 = (E/	f(n) - f(n)			
AT .	Bias is the	difference	between	the	
	anorman Pi	ediction o	d our mode	1 8	
	the correct	value which	In we are	mying 10	
	predict.		1		
	CX MARIN MR	1	KIR21	å.	
	21/ 95/	527, 135/		`	
Ī	22/yt	27 8//		1	
	/23/ Y4/	/7/, 18/			
	My / 48 /	19 //			
	25/92	135 / 627			
	u, v y	(35/ 627			
	Value of X.	MR	1 MR 2	MR3.	Mean
	χ, "	135		627	256.3
	χ2	9	27	27	21
	23	15	627	7	216.3
23 <u>0</u>	Ny	7	135	15	52.3
	2/5	27	9		259
	26	62	7 15	132	239
()	(62\$7-256.3)	+ (27-21)	1+ (7-216.	2)	
()	+1(15 - S2.3		+ 1135-25		
	T (13 32.3	11, (1=13)	1 1000	'	
	Bias is Me	an of abs	of whove	tems.	
	370.7+6+209	.3 + 37. 3 + 6	7394 =	170.65	
		6			4

and and	Date:/
d) Var = E[(f(x) - E[$\hat{F}(x)$
Variance is voriability a given for a datapoint	g a model prediction
~ It is how much the point vary between	
e) 13 (3/2/2863) A (1-	•
MRI= ((185-256.3)2+(9- + (7-52.5)2+(21) 2+ (15 216.3) 4 (627-255) 4
MRS & take we	rage of all to get answer.
$f) MSE = E \left(f(2i) - \hat{f} \right)$	
	/J .