			Trial 1
batch size	100		
Convolution	32/4,4/relu/2,2	32/4,4/relu/2,2	32/4,4/relu/2,2
Dense Units (1 Dense layer)	128		
actual epochs	24		
max epochs	100		
training accuracy	21.8		
testing accuracy	19.1		
,			Trial 2
batch size	1000		
Convolution	32/4,4/relu/2,2	32/4,4/relu/2,2	32/4,4/relu/2,2
Dense Units (1 Dense layer)	128		
actual epochs	8		
max epochs	100		
training accuracy	26.4		
testing accuracy	21.6		
COMMENTS		cations have a pro	pportional difference on training time
			pochs, improved accuracy mildly
			Trial 3
batch size	100		
Convolution	32/4,4/relu/2,2	64/4,4/relu/2,2	128/4,4/relu/2,2
Dense Units (1 Dense layer)	128	. ,	. , , ,
actual epochs	17		
max epochs	100		
training accuracy	34.3		
testing accuracy	26.1		
COMMENTS	increased filters h	nad a significant a	nd positive impact
			Trial 4
batch size	100		
Convolution	64/4,4/relu/2,2	128/4,4/relu/2,2	256/4,4/relu/2,2
Dense Units (1 Dense layer)	128		
actual epochs	19		
max epochs	100		
training accuracy	42.5		
testing accuracy	27.2		
COMMENTS	for some reason i	ncreasing filter size	ze increased overfitting, will test furth
			Trial 4
batch size	100		
Convolution	128/4,4/relu/2,2	256/4,4/relu/2,2	512/4,4/relu/2,2
Dense Units (1 Dense layer)	128		
actual epochs	8		
max epochs	100		
training accuracy	0.1		
testing accuracy	0.1		
COMMENTS	hmmmmm, too n	nany filters is defi	nitely not good
	, == = -	,	Trial 5
batch size	100		

Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy testing accuracy	8/4,4/relu/2,2 128 33 100 22.7 20		32/4,4/relu/2,2	
	seem like reduc	ing filters ain't sup	oer helpful either, v	we kind of started
COMMENTS		at a sweet point	Let's add layers	
			Trial 6	
batch size	100			
Convolution	16/4,4/relu/2,2	32/3,3/relu/2,2	64/3,3/relu/2,2	128/2,2/relu/na
Dense Units (1 Dense layer)	128			
actual epochs	16			
max epochs	100			
training accuracy	31.7			
testing accuracy	26			
COMMENTS	adding a layer Ma	AY have helped, b	ut we changed a lo	ot of parameters
			Trial 7	
batch size	100			
Convolution	16/4,4/relu/na	32/3,3/relu/na	64/3,3/relu/na	128/2,2/relu/na
Dense Units (1 Dense layer)	128			
actual epochs	5			
max epochs	100			
training accuracy	0.1			
testing accuracy	0.1			
COMMENTS	getting rid of poo	oling layers, was d		
			Trial 8	
batch size	100			
Convolution			64/3,3/relu/2,2	128/2,2/relu/na
Dense Units (1 Dense layer)	128			
actual epochs	18			
max epochs	100			
training accuracy	36.7			
testing accuracy	29.6			
COMMENTS	reducing the kerr	nel size in the first	layer had a positi	ve effect
			Trial 9	
batch size	100			
Convolution			64/3,3/relu/2,2	128/2,2/relu/na
Dense Units (1 Dense layer)	128			
actual epochs	19			
max epochs	100			
training accuracy	38.3			
testing accuracy	29.2			
COMMENTS	reducing the kerr	nel size in the first	layer seems to ha	ve had no effect
			Trial 10	
batch size	100			

Convolution	16/2,2/relu/2,2	32/3,3/relu/2,2	64/3,3/relu/na	128/2,2/relu/na
Dense Units (1 Dense layer)	128			
actual epochs max epochs	6 100			
training accuracy	0.1			
testing accuracy	0.1			
COMMENTS		rd nooling laver	and added a fifth l	ayer and it was real
COMMITTER	rgot na or the th	ra pooling layer,	Trial 11	ayer and it was rear
batch size	100		11101 11	
Convolution	16/2,2/relu/2,2	32/3.3/relu/2.2	64/3.3/relu/na	128/2,2/relu/na
Dense Units (1 Dense layer)	128	- , -, -,, ,	- 7 - 7 - 7 - 7	-, , ,, -
actual epochs	21			
max epochs	100			
training accuracy	44.2			
testing accuracy	28.2			
COMMENTS		fitting a little mor	e than trial 9 for s	ome reason
CONTINUENTS	Seems to be over		2 (copy of trial 6)	onic reason
batch size	100			
Convolution	16/4,4/relu/2,2	32/3.3/relu/2.2	64/3.3/relu/2.2	128/2,2/relu/na
Dense Units (1 Dense layer)	128	- , -, -,, ,	- / - / - / / /	-, , ,, -
actual epochs	21			
max epochs	100			
training accuracy	35.1			
testing accuracy	27.5			
COMMENTS	results are similar	r to before		
			Trial 13	
batch size	100			
Convolution	16/4,4/relu/na	32/3,3/relu/na	64/3,3/relu/na	128/2,2/relu/na
Dense Units (1 Dense layer)	128			
actual epochs	8			
max epochs				
	100			
training accuracy	100 0.1			
training accuracy	0.1	ooling layers, is d	evastating	
training accuracy testing accuracy	0.1 0.1	pooling layers, is d	evastating Trial 14	
training accuracy testing accuracy	0.1 0.1	oooling layers, is d		
training accuracy testing accuracy COMMENTS	0.1 0.1 deleting all max p	oooling layers, is d		128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size	0.1 0.1 deleting all max p		Trial 14	128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size Convolution	0.1 0.1 deleting all max p 100 16/4,4/relu/na		Trial 14	128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size Convolution Dense Units (1 Dense layer)	0.1 0.1 deleting all max p 100 16/4,4/relu/na 128		Trial 14	128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size Convolution Dense Units (1 Dense layer) actual epochs	0.1 0.1 deleting all max p 100 16/4,4/relu/na 128 5		Trial 14	128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs	0.1 0.1 deleting all max p 100 16/4,4/relu/na 128 5		Trial 14	128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy	0.1 0.1 deleting all max p 100 16/4,4/relu/na 128 5 100 0.1	32/3,3/relu/na	Trial 14	128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy testing accuracy	0.1 0.1 deleting all max p 100 16/4,4/relu/na 128 5 100 0.1 0.1	32/3,3/relu/na	Trial 14	128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy testing accuracy	0.1 0.1 deleting all max p 100 16/4,4/relu/na 128 5 100 0.1 0.1	32/3,3/relu/na	Trial 14 64/3,3/relu/na	128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy testing accuracy COMMENTS	0.1 0.1 deleting all max p 100 16/4,4/relu/na 128 5 100 0.1 0.1 adding a layer did	32/3,3/relu/na	Trial 14 64/3,3/relu/na	128/2,2/relu/na 128/2,2/relu/na
training accuracy testing accuracy COMMENTS batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy testing accuracy COMMENTS batch size	0.1 0.1 deleting all max p 100 16/4,4/relu/na 128 5 100 0.1 0.1 adding a layer did	32/3,3/relu/na	Trial 14 64/3,3/relu/na Trial 15	

actual epochs max epochs training accuracy testing accuracy	20 100 38 29.6			
COMMENTS	brought back all t	hree layers of ma	x pooling layer	
			Trial 15	
batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy testing accuracy	100 16/2,2/relu/2,2 128 26 100 39.8 30.4	32/2,2/relu/2,2	64/2,2/relu/2,2	128/2,2/relu/2,2
COMMENTS		ng layer at level fo	our and reduced ke	rnel size in layer 2 a
			Trial 15	
batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy testing accuracy	100 16/2,2/relu/2,2 128 22 100 43.7 31.9	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
COMMENTS		made laver 2 ker	nel 1 1 and remove	ed it's max pooling
COMMENTS	added men layer,	made layer 2 ker	Trial 16	ed it's max pooming
batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy	100 16/2,2/relu/2,2 128 21 100 49.9	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
testing accuracy COMMENTS	33 more filters in the	e final laver, is slig	htly positive	
		2 mai 14 y 21 y 12 3 mg	Trial 17	
batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs training accuracy testing accuracy	100 16/2,2/relu/2,2 128 20 100 51.4 32.5		64/2,2/relu/2,2	128/2,2/relu/2,2
COMMENTS	more filters in the	e final laver. had r	no effect	
			Trial 18	
batch size Convolution Dense Units (1 Dense layer) actual epochs max epochs	300 32/2,2/relu/2,2 128 12 100	64/1,1/relu/na	128/2,2/relu/2,2	256/2,2/relu/2,2

Analisis a a same an	0.4			
training accuracy	0.1 0.1			
testing accuracy COMMENTS		ach non-final law	er and triple batch	size was not good
COMMENTS	double litters at e		19 (copy Trial 16)	size was not good
batch size	300	11101	25 (66) 11101 25)	
Convolution	16/2,2/relu/2,2	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
Dense Units (1 Dense layer)	128			. , , . ,
actual epochs	19			
max epochs	100			
training accuracy	44.2			
testing accuracy	32.6			
COMMENTS	changed batch siz	e, no serious effe	ect (may have redu	ced overfitting a lit
			Trial 20	
batch size	300			
Convolution	16/2,2/relu/2,2	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
Dense Units (1 Dense layer)	80			
actual epochs	5			
max epochs	100			
training accuracy	0.1			
testing accuracy	0.1			
COMMENTS	reduced dense la	yers, doesn't seer	m to caputre the pa	attern anymore
			Trial 21	
batch size	300			
Convolution	16/2,2/relu/2,2	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
Dense Units (1 Dense layer)	110			
actual epochs	24			
max epochs	100			
training accuracy	50			
testing accuracy	32.7			6
COMMENTS	midde ground of	dense layers, doe	esn't seem to help	with overfitting
hatah sira	300		Trial 22	
batch size	300	22/4 4/22/2/2	64/2.2/1/2.2	420/2 2/22/22
Convolution	16/2,2/relu/2,2	32/1,1/reiu/na	64/2,2/reiu/2,2	128/2,2/relu/2,2
Dense Units (1 Dense layer)	95			
actual epochs	6			
max epochs training accuracy	100 0.1			
,	0.1			
testing accuracy COMMENTS		vers doesn't see	m to caputre the pa	attern anymore
COMMENTS	reduced delise id	yers, doesn't seer	Trial 23	attern anymore
batch size	300		That 25	
Convolution	16/2,2/relu/2,2	32/1.1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
Dense Units (1 Dense layer)	103	-, -, -, · · · · · · · · · · · · · · · ·	5 ·, _,_, · C· \ \ / _, _	0, _,_,
actual epochs	25			
max epochs	100			
training accuracy	49.4			
testing accuracy	33.4			
	33.4			

batch size Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 103/80/60 actual epochs 100 training accuracy testing accuracy 27.6 COMMENTS added two more dense layers **COMMENTS** **Trial 24** **Batch size **Oy80/60 actual epochs added two more dense layers **COMMENTS** **Dense Layers **Soy80/60 actual epochs ana epochs 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 **Dense Layers **Soy80/60 actual epochs ana epochs 100 training accuracy 26.2 **COMMENTS** **reduced first layer units, no effect **Trial 25** **batch size **Onvolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 **Dense Layers **a 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 **Dense Layers **a 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 **Dense Layers **a 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 **COMMENTS** **reduced first layer units, can't find a pattern **Trial 26** **batch size 0.1 **COMMENTS** **reduced first layer units, can't find a pattern **COMMENTS** **reduced first layer units, can't find a pattern **Trial 26** **string accuracy 0.1 **convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 **Dense Layers 40/80/40 **actual epochs 100 **training accuracy 20.5 **moderated first and last layer, accuracy reduced, overfitting mostly una **Trial 27** **batch size 00MENTS** **moderated first and last layer, accuracy reduced, overfitting mostly una **Trial 27** **batch size 300 **CONVolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 **partial 27** **batch size 300 **CONMENTS** **moderated first and last layer, accuracy reduced, overfitting mostly una **Trial 28** **Trial 28** **partial 24**	COMMENTS	midde ground of	dense layers, doe	esn't seem to help	with overfitting
Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 103/80/60 23					
Dense Layers actual epochs 103/80/60 actual epochs 100 training accuracy 40.5 testing accuracy 27.6 COMMENTS added two more dense layers Trial 24 batch size COMONIUTION 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 50/80/60 actual epochs 18 4 4 4 4 4 4 4 2 128/2,2/relu/2,2 2 2 1 2 128/2,2/relu/2,2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2	batch size	300)		
actual epochs max epochs 100 training accuracy COMMENTS added two more dense layers Trial 24	Convolution	16/2,2/relu/2,2	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
max epochs 100 training accuracy 40.5 commemory 27.6 commemory 27.6 commemory 300 Trial 24 batch size 300 convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 50/80/60 30 46/2,2/relu/2,2 128/2,2/relu/2,2 actual epochs 100	Dense Layers	103/80/60			
training accuracy 27.6 COMMENTS added two more elementary 27.6 COMMENTS added two more elementary 27.7 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 50/80/60 actual epochs 18 max epochs 100 training accuracy 26.2 COMMENTS reduced first layer units, no effect Trial 25 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 25/80/60 actual epochs 9 max epochs 100 training accuracy 0.1 training accuracy 10.1 comments reduced first layer units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 batch size 300 Comments moderated first and last layer, accuracy reduced, overfitting mostly una relation size 300 Comments moderated first and last layer, accuracy reduced, overfitting mostly una relation size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 batch size 40/60/40 actual epochs 40/60/40 actual epochs 40/60/40 actual epochs 40/60/40 actual epochs 40/60/40 actual epoc	actual epochs	23	}		
training accuracy 27.6 COMMENTS added two more elements layers Trial 24	max epochs	100)		
testing accuracy COMMENTS added two more dense layers Trial 24	•	40.5	;		
Trial 24 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 50/80/60 actual epochs 18 max epochs 100 respect to the part of the part	• ,	27.6	;		
Trial 24	•	added two more	dense layers		
Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 50/80/60 actual epochs 1.8 actual epochs 1.00 actual epochs 3.00 actual epochs 3.00 actual epochs actual epochs 5.00 actual epochs 9 actual epochs 9 actual epochs 9 actual epochs 1.00 actual epochs 1.00 actual epochs 9 actual epochs 1.00 actual epochs 2.01 actual epochs 2.02 3.01 actual epochs 2.02 2.02 actual epochs 2.02 2.02 actual epochs 2.02 2.02 actual epochs 2.02 <td></td> <td></td> <td></td> <td>Trial 24</td> <td></td>				Trial 24	
Dense Layers actual epochs actual epochs actual epochs ana epochs ana epochs ana epochs actual ep	batch size	300)		
Dense Layers actual epochs actual epochs actual epochs ana epochs ana epochs ana epochs actual ep	Convolution	16/2,2/relu/2,2	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
actual epochs	Dense Layers				
max epochs 100 training accuracy 39 testing accuracy 26.2 Trial 25 batch size Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 25/80/60 9 46/2,2/relu/2,2 128/2,2/relu/2,2 128/2,2	•	18	3		
training accuracy 26.2 COMMENTS reduced first lay=r units, no effect reduced first lay=r units, no effect Trial 25 batch size Convolution 16/2,2/relu/2,2 25/80/60 actual epochs max epochs training accuracy COMMENTS reduced first lay=r units, no effect 100 training accuracy 0.1 COMMENTS reduced first lay=r units, no effect Trial 25 25/80/60 actual epochs 9 max epochs 100 training accuracy 0.1 COMMENTS reduced first lay=r units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 100 training accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy reduced, overfitting mostly unare in the size and last layer, accuracy in the size and last layer, accuracy in the size and last	·	100)		
testing accuracy COMMENTS reduced first layer units, no effect Trial 25	·	39)		
COMMENTS reduced first layer units, no effect Trial 25 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 25/80/60 actual epochs 9 max epochs 100 training accuracy 0.1 COMMENTS reduced first layer units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 27 max epochs 100 training accuracy 33.5 testing accuracy 33.5 testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unar Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 32/1,1/relu/na 64		26.2	1		
batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 25/80/60 actual epochs 9 max epochs 100 training accuracy 0.1 testing accuracy 0.1 COMMENTS reduced first layer units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 27 max epochs 100 training accuracy 33.5 testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly una Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2	•	reduced first laye	er units, no effect		
batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 25/80/60 actual epochs 9 max epochs 100 training accuracy 0.1 testing accuracy 0.1 COMMENTS reduced first layer units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 27 max epochs 100 training accuracy 33.5 testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unatorial size accuracy accur		,	,		
Dense Layers actual epochs max epochs 100 training accuracy 0.1 testing accuracy 0.1 COMMENTS reduced first layer units, can't find a pattern reduced first layer units and last layer, accuracy 128/2,2/relu/2,2 128/2,2/relu/2,2 12	batch size	300)		
Dense Layers actual epochs max epochs fraining accuracy COMMENTS reduced first layer units, can't find a pattern reduced first layer units and last layer, layer units layer units	Convolution	16/2,2/relu/2,2	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
actual epochs max epochs 100 training accuracy 0.1 testing accuracy 0.1 COMMENTS reduced first layer units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 23/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 100 training accuracy 33.5 testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unated first size Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 128/2,2/relu	Dense Lavers		. , , ,	. , ,	. , , , , ,
max epochs training accuracy testing accuracy COMMENTS reduced first layer units, can't find a pattern reduced first layer units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 23/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 128/2,2/relu/2,2 20 a 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 128/2,2/relu/2,	•	• •)		
training accuracy testing accuracy COMMENTS reduced first layer units, can't find a pattern reduced first layer units, can't find a pattern reduced first layer units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 7 max epochs 100 training accuracy 33.5 testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unary moderated first and last layer, accuracy reduced, overfitting mostly unary Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	•	100)		
testing accuracy COMMENTS reduced first layer units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 7 max epochs 100 training accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unary actual epochs 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	•	0.1	_		
COMMENTS reduced first layer units, can't find a pattern Trial 26 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 27 max epochs 100 training accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unar Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	• ,	0.1			
batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 27 max epochs 100 training accuracy 33.5 testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unar Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	•	reduced first laye	er units, can't find	a pattern	
Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/80/40 actual epochs 27 max epochs 100 training accuracy 33.5 testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unar Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect					
Dense Layers 40/80/40 actual epochs 27 max epochs 100 training accuracy 33.5 testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly una Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	batch size	300)		
Dense Layers 40/80/40 actual epochs 27 max epochs 100 training accuracy 33.5 testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly una Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	Convolution	16/2,2/relu/2,2	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
max epochs training accuracy testing accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly una Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy testing accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	Dense Layers	40/80/40			
training accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly una Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	actual epochs	27	,		
training accuracy 22.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly una Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	max epochs	100)		
testing accuracy COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unatorial 27 batch size Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs max epochs training accuracy testing accuracy 24.5 COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unatorial ending		33.5	;		
COMMENTS moderated first and last layer, accuracy reduced, overfitting mostly unatomic Trial 27 batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect		22.5	;		
batch size 300 Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	-	moderated first	and last layer, acc	uracy reduced, ove	erfitting mostly unaf
Convolution 16/2,2/relu/2,2 32/1,1/relu/na 64/2,2/relu/2,2 128/2,2/relu/2,2 Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect					
Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	batch size	300)		
Dense Layers 40/60/40 actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	Convolution	16/2,2/relu/2,2	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
actual epochs 21 max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	Dense Layers				
max epochs 100 training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	•	• •	-		
training accuracy 33.2 testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	•	100)		
testing accuracy 24.5 COMMENTS reduced hidden units in middle layer, no effect	•	33.2	<u>.</u>		
COMMENTS reduced hidden units in middle layer, no effect	-				
				er, no effect	

batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	300 16/2,2/relu/2,2 30/40/30 10 0.1 0.1 dropped a ton or	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
		, ,	Trial 29	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	300 16/2,2/relu/2,2 40/50/40 18 100 0.1	32/1,1/relu/na 3 3	64/2,2/relu/2,2	128/2,2/relu/2,2
COMMENTS	increased units i	n all layers, but no	t enough	
			30 (copy Trial 27)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	300 16/2,2/relu/2,2 40/60/40 18 100 24.3 17.3 flukey	32/1,1/relu/na 3 3 3	64/2,2/relu/2,2	128/2,2/relu/2,2
COMMENTS	nukey		Trial 31	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	300 16/2,2/relu/2,2 40/80/40 23 100 37.1 25.9 back to roughly	32/1,1/relu/na 3 3 9	64/2,2/relu/2,2	128/2,2/relu/2,2
			Trial 31	
batch size Convolution Dense Layers actual epochs	300 16/2,2/relu/2,2 40/80/40	32/1,1/relu/na	64/2,2/relu/2,2	128/2,2/relu/2,2
max epochs training accuracy testing accuracy COMMENTS	100 20 14.2 increased the filt)		e have more nodes)
			Trial 32	
batch size Convolution	300 16/2,2/relu/2,2		64/2,2/relu/2,2	128/2,2/relu/2,2

Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	60/120/60 18 100 37.2 26.5 increased dense layer node numb	per, improved accuracy markedly
		Trial 33
batch size	900	
Convolution	16/2,2/relu/2,2 32/1,1/relu/na	64/2,2/relu/2,2 128/2,2/relu/2,2
Dense Layers	60/120/60	
actual epochs	30	
max epochs	100	
training accuracy	32.5	
testing accuracy	22	
COMMENTS	increased batch size, training was	faster, decreased accuracy somehow
		Trial 34
batch size	900	
Convolution	16/2,2/relu/2,2 64/1,1/relu/na	124/2,2/relu/2,2 256/2,2/relu/2,2
Dense Layers	60/120/60	
actual epochs	22	
max epochs	100	
training accuracy	34.5	
testing accuracy	23.4	
	1 1 1 1 601	
	doubled filters for a bur	nch of layers, minimal impact
COMMENTS		nch of layers, minimal impact ore classifying nodes)
COMMENTS		
COMMENTS batch size		ore classifying nodes)
	(maybe needs m	ore classifying nodes)
batch size	(maybe needs m	ore classifying nodes) Trial 35
batch size Convolution	900 16/2,2/relu/2,2 64/1,1/relu/na	ore classifying nodes) Trial 35
batch size Convolution Dense Layers	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80	ore classifying nodes) Trial 35
batch size Convolution Dense Layers actual epochs	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23	ore classifying nodes) Trial 35
batch size Convolution Dense Layers actual epochs max epochs	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100	ore classifying nodes) Trial 35
batch size Convolution Dense Layers actual epochs max epochs training accuracy	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9 positive impact, but increased over	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9 positive impact, but increased over	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting Trial 36
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9 positive impact, but increased over 16/2,2/relu/2,2 64/1,1/relu/na 64/2,2/relu/2,2 64/1,1/relu/na 64/1,1/re	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting Trial 36
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9 positive impact, but increased over the second of the secon	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting Trial 36
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9 positive impact, but increased over 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 20	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting Trial 36
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9 positive impact, but increased over 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 20 100	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting Trial 36
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9 positive impact, but increased over the second of	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting Trial 36
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9 positive impact, but increased over a second control of the co	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting Trial 36
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	900 16/2,2/relu/2,2 64/1,1/relu/na 80/140/80 23 100 43.6 28.9 positive impact, but increased over a second control of the co	ore classifying nodes) Trial 35 124/2,2/relu/2,2 256/2,2/relu/2,2 erfitting Trial 36 124/2,2/relu/2,2 256/2,2/relu/2,2

Dense Layers	300/140/300
actual epochs	21
max epochs	100
training accuracy	48
testing accuracy	30
	increased number of classifying nodes, accuracy hasn't improved much
COMMENTS	from Trial 35. Overfitting has increased.
	Trial 38
batch size	900
Convolution	32/2,2/relu/2,2 124/1,1/relu/na 256/2,2/relu/2,2 512/2,2/relu/2,2
Dense Layers	300/140/300
actual epochs	16
·	
max epochs	100
training accuracy	60
testing accuracy	36
COMMENTS	increased filters in all layers
	Trial 39
batch size	900
Convolution	32/2,2/relu/2,2 124/1,1/relu/na 256/2,2/relu/2,2 512/2,2/relu/2,2
Dense Layers	300/140/300
actual epochs	17
max epochs	100
training accuracy	63.3
testing accuracy	35.3
COMMENTS	increased filters in last layer, but no effect
COMMENTS	Trial 40
batch size	900
Convolution	32/2,2/relu/2,2 124/1,1/relu/na 256/2,2/relu/2,2 512/2,2/relu/2,2
Dense Layers	400/140/300
actual epochs	17
max epochs	100
training accuracy	70
testing accuracy	36
COMMENTS	increased nodes in first classifying layer, worsened overfitting
	Trial 41
batch size	2700
Convolution	128/2,2/relu/2,2 256/2,2/relu/na 512/2,2/relu/2,2 1024/2,2/relu/2,2
Dense Layers	400/140/300
actual epochs	24
max epochs	100
training accuracy	49.6
testing accuracy	33.5
	tripled batch size, increased kernel size in layer 2 and removed last
COMMENTS	tripled batch size, increased kernel size in layer 2 and removed last max pooling layer, reduced overfitting considerably for some reason
COMMENTS	
COMMENTS batch size	max pooling layer, reduced overfitting considerably for some reason

Convolution		256/2,2/relu/na	512/2,2/relu/2,2	1024/2,2/relu/2,2
Dense Layers	400/140/300			
actual epochs	9			
max epochs	100			
training accuracy	58			
testing accuracy	34			
COMMENTS	increased batch	size, didn't really s		
			DATA AUGMENTA	ATION
batch size	4000			
Convolution		256/2,2/relu/na	512/2,2/relu/2,2	1024/2,2/relu/2,2
Dense Layers	400/140/300			
actual epochs	32			
max epochs	100			
training accuracy	54.1			
testing accuracy	33.1			
	modes	t reduction in over	fitting, but slowed	l training
COMMENTS	со	nsiderably - not re	ally worth the has	tle
	Trial 44 USED C	HAT GPT TO SUGG	EST AN ARCHITECT	TURE, which uses p
batch size	128			•
Convolution	32/3,3/relu/na	32/3,3/relu/2,2	64/3,3/relu/na	64/3,3/relu/2,2
Dense Layers	512/100	. , , . ,		. , , . ,
actual epochs	. 12			
max epochs	100			
training accuracy	54.3			
- · · · · · · · · · · · · · · · · · · ·	40.3			
testing accuracy				
testing accuracy			eem much faster	
comments		size, didn't really s		
COMMENTS	increased batch	size, didn't really so Tria	eem much faster <mark>I 45 (padding)</mark>	
COMMENTS batch size	increased batch s	size, didn't really so Tria	l 45 (padding)	64/2 2/rolu/2 2
COMMENTS batch size Convolution	increased batch s 128 32/3,3/relu/na	size, didn't really so Tria 32/3,3/relu/2,2	l 45 (padding)	64/3,3/relu/2,2
batch size Convolution Dense Layers	128 32/3,3/relu/na 300/100	size, didn't really so Tria 32/3,3/relu/2,2 300/200	l 45 (padding) 64/3,3/relu/na	64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs	128 32/3,3/relu/na 300/100	32/3,3/relu/2,2 300/200	l 45 (padding)	64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs	128 32/3,3/relu/na 300/100 12 100	32/3,3/relu/2,2 300/200	64/3,3/relu/na Trial 53	64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy	128 32/3,3/relu/na 300/100 12 100 53.3	32/3,3/relu/2,2 300/200 51.1	l 45 (padding) 64/3,3/relu/na Trial 53	64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	128 32/3,3/relu/na 300/100 12 100 53.3 35.7	32/3,3/relu/2,2 300/200 20 51.1 35.2	64/3,3/relu/na Trial 53	64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy	128 32/3,3/relu/na 300/100 12 100 53.3 35.7	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura	1 45 (padding) 64/3,3/relu/na Trial 53	64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura	64/3,3/relu/na Trial 53	64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura	64/3,3/relu/na Trial 53 cy 1 46 (padding)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer 128 32/3,3/relu/na	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura	1 45 (padding) 64/3,3/relu/na Trial 53	64/3,3/relu/2,2 64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura	64/3,3/relu/na Trial 53 cy 1 46 (padding)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer 128 32/3,3/relu/na	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura Tria 32/3,3/relu/2,2	64/3,3/relu/na Trial 53 cy 1 46 (padding)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer 128 32/3,3/relu/na 400/200	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura Tria 32/3,3/relu/2,2	64/3,3/relu/na Trial 53 cy 1 46 (padding)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer 32/3,3/relu/na 400/200 17	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura Tria 32/3,3/relu/2,2	64/3,3/relu/na Trial 53 cy 1 46 (padding)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer 128 32/3,3/relu/na 400/200 17 100	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura Tria 32/3,3/relu/2,2	64/3,3/relu/na Trial 53 cy 1 46 (padding)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer 128 32/3,3/relu/na 400/200 17 100 51.3 36.2	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura Tria 32/3,3/relu/2,2	1 45 (padding) 64/3,3/relu/na Trial 53 cy 1 46 (padding) 64/3,3/relu/na	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer 128 32/3,3/relu/na 400/200 17 100 51.3 36.2	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura Tria 32/3,3/relu/2,2	1 45 (padding) 64/3,3/relu/na Trial 53 cy 1 46 (padding) 64/3,3/relu/na	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer 128 32/3,3/relu/na 400/200 17 100 51.3 36.2	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura Tria 32/3,3/relu/2,2	1 45 (padding) 64/3,3/relu/na Trial 53 cy 1 46 (padding) 64/3,3/relu/na	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	128 32/3,3/relu/na 300/100 12 100 53.3 35.7 reduced first layer 128 32/3,3/relu/na 400/200 17 100 51.3 36.2 modified fc layer	32/3,3/relu/2,2 300/200 20 51.1 35.2 er, reduced accura Tria 32/3,3/relu/2,2	1 45 (padding) 64/3,3/relu/na Trial 53 cy 1 46 (padding) 64/3,3/relu/na	

Dense Layers	350/250
actual epochs	23
max epochs	100
training accuracy	60.2
testing accuracy	37.2
COMMENTS	modified fc layers, overfitting increased
	Trial 48 (padding)
batch size	128
Convolution	32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2
Dense Layers	200/100/50
actual epochs	23
max epochs	100
training accuracy	28.5
testing accuracy	22.9
COMMENTS	modified fc layers, overfitting increased
	Trial 49 (padding)
batch size	128
Convolution	32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2
Dense Layers	450/200
actual epochs	. 22
max epochs	100
training accuracy	59.2
testing accuracy	37.2
COMMENTS	overfitting increased
COMMENTS	
	Trial 50 (padding)
batch size	Trial 50 (padding) 128
batch size Convolution	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2
batch size Convolution Dense Layers	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200
batch size Convolution Dense Layers actual epochs	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24
batch size Convolution Dense Layers actual epochs max epochs	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100
batch size Convolution Dense Layers actual epochs max epochs training accuracy	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3
batch size Convolution Dense Layers actual epochs max epochs training accuracy	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decreased
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decreased Trial 51 (padding)
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decreased Trial 51 (padding)
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decresed Trial 51 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decressed Trial 51 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 250/200
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decresed Trial 51 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 250/200 27 28 29 29 20 20 20 20 20 20 20 20
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decressed 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 250/200 27 100 100
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decressed Trial 51 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 250/200 27 100 55.3
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decressed 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 250/200 27 100 27 100 55.3 35.5
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decreased Trial 51 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 250/200 27 100 55.3 35.5 accuracy decreased
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decresed 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 250/200 27 100 27 100 55.3 35.5 accuracy decreased Trial 52 (padding)
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy testing accuracy testing accuracy	Trial S0 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy testing accuracy testing accuracy testing accuracy COMMENTS	Trial 50 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24 100 57.4 37.3 overfitting decresed 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 250/200 27 100 55.3 35.5 accuracy decresed 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 accuracy decresed 128 32/3,3/relu/aa 64/3,3/relu/aa 64/3,3/relu/2,2
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy testing accuracy testing accuracy	Trial S0 (padding) 128 32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2 300/200 24

max epochs	100	
training accuracy	40.2	
testing accuracy	28.6	
COMMENTS	oh boiii	
	Trial 53 (padding)	
batch size	128	
Convolution	32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na	64/3,3/relu/2,2
Dense Layers	300/100	
actual epochs	19	
max epochs	100	
training accuracy	45.8	
testing accuracy	33	
COMMENTS	reduced overfitting, minimal impact to accuracy	
	Trial 54 (padding)	
batch size	128	64/2 2/21 /2 2
Convolution	32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na	64/3,3/relu/2,2
Dense Layers	300/50 23	
actual epochs max epochs	100	
•	41.3	
training accuracy testing accuracy	30.1	
COMMENTS	reduced overfitting, some impact to accuracy	
COMMENTS	Trial 55 (padding)	
batch size	128	
Convolution	32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na	64/3,3/relu/2,2
Dense Layers	300/300	
actual epochs	26	
max epochs	100	
training accuracy	62.3	
testing accuracy	37.9	
COMMENTS		
	Trial 56 (padding)	
batch size	128	
Convolution	32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na	64/3,3/relu/2,2
Dense Layers	800/200	
actual epochs	17	
max epochs	100	
training accuracy	58.5	
testing accuracy	37.9	
COMMENTS	minor reduction in overfitting, but no change in acc	uracy
batch size	Trial 57 (padding) 128	
Convolution	32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na	64/3,3/relu/2,2
Dense Layers	250/200	0 -1 , 3,3,1 Clu/ 2,2
actual epochs	25	
max epochs	100	
training accuracy	56.2	
a an in g accuracy	JV.L	

testing accuracy	36.3			
COMMENTS	reduce accuracy	T. (1)	LEO (a della a)	
hatah siza	120		I 58 (padding)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	128 32/3,3/relu/na 300/200 22 100 55.9 36.8 decent	32/4,4/relu/2,2	64/3,3/relu/na	64/3,3/relu/2,2
		Tria	I <mark>l 59 (padding)</mark>	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	128 32/4,4/relu/na 300/200 24 100 52.9 34.8	32/4,4/relu/2,2	64/3,3/relu/na	64/3,3/relu/2,2
COMMITTER	arter mereasing is		Il 60 (padding)	
batch size	128		oo (pararam-8)	
Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	32/3,3/relu/na 300/200 27 100 56.8 38.2	32/2,2/relu/2,2	64/3,3/relu/na	64/3,3/relu/2,2
COMMENTS	after decreasing	kernel size, impro	ved accuracy	
		Tria	ıl 61 (padding)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy	128 32/4,4/relu/na 300/200 24 100 48.9 34.7	32/3,3/relu/2,2	64/3,3/relu/na	64/3,3/relu/2,2
,	decre	escendo kernel siz	e, reduced accura	cy a lot
COMMENTS			g decreased more	•
		Tria	ıl 62 (padding)	
batch size Convolution Dense Layers actual epochs max epochs training accuracy	128 32/2,2/relu/na 300/200 17 100 50	32/2,2/relu/2,2	64/3,3/relu/na	64/3,3/relu/2,2

testing accuracy	33.1
COMMENTS	crescendo kernel size, accuracy decreased
	Trial 63 (padding)
batch size	128
Convolution	32/4,4/relu/na 32/4,4/relu/2,2 64/4,4/relu/na 64/3,3/relu/2,2
Dense Layers	300/200
actual epochs	27
max epochs	100
training accuracy	50.7 33.5
testing accuracy COMMENTS	
COMMENTS	decrescendo kernel size, but less drop did not see much improvement Trial 64 (padding)
batch size	128
Convolution	32/5,5/relu/na 32/4,4/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2
Dense Layers	300/200
actual epochs	24
max epochs	100
training accuracy	45.2
testing accuracy	33.3
,	decrescendo kernel size & stretched kernel range marked
COMMENTS	- decrease in overfitting
	Trial 65 (padding)
batch size	128
Convolution	32/6,6/relu/na 32/5,5/relu/2,2 64/4,4/relu/na 64/3,3/relu/2,2
Dense Layers	300/200
actual epochs	22
max epochs	100
training accuracy	39 30
testing accuracy	decrescendo kernel size & stretched kernel range
COMMENTS	- decrease in overfitting again, but accompanied by reduced accuracy
COMMENTS	Trial 66 (padding)
batch size	128
Convolution	32/6,6/relu/na 32/5,5/relu/na 32/5,5/relu/2,2 64/4,4/relu/na
Dense Layers	300/200
actual epochs	22
max epochs	100
training accuracy	36.4
testing accuracy	27.8
COMMENTS	added another layer, but decreased accuracy a lot
	Trial 67 (padding)
batch size	128
Convolution	32/3,3/relu/na 32/3,3/relu/2,2 64/3,3/relu/na 64/3,3/relu/2,2
Dense Layers	300/200
actual epochs	16
max epochs	100
training accuracy	44.9

testing accuracy	34.3	3		
COMMENTS	not as good as the original chat-gpt			
			ıl 68 (padding)	
batch size	128		100/00/	100/00/ 1/00
Convolution	64/3,3/relu/na 300/200	64/3,3/relu/2,2	128/3,3/relu/na	128/3,3/relu/2,2
Dense Layers actual epochs	22)		
max epochs	100			
training accuracy	52			
testing accuracy	34.5			
COMMENTS	doubled the filte	ers		
		Tria	I <mark>l 69 (padding)</mark>	
batch size	128	3		
Convolution	64/3,3/relu/na	64/3,3/relu/2,2	128/3,3/relu/na	128/3,3/relu/2,2
Dense Layers	512/200			
actual epochs	21			
max epochs	100			
training accuracy	58.1			
testing accuracy	38			
COMMENTS	increased first fo	•	170 (1.1")	
hatah aira	120		ll 70 (padding)	
batch size Convolution	128 64/3,3/relu/na	64/3,3/relu/2,2	128/3,3/relu/na	128/3,3/relu/2,2
Dense Layers	512/500	04/3,3/1810/2,2	120/3,3/16/0/110	120/3,3/1814/2,2
actual epochs	15	5		
max epochs	100			
training accuracy	63.4			
testing accuracy	40)		
COMMENTS	increased last fc	layer		
		Tria	ıl 71 (padding)	
batch size	128	3		
Convolution		64/3,3/relu/2,2	128/3,3/relu/na	128/3,3/relu/2,2
Dense Layers	512/500			
actual epochs	16			
max epochs	100			
training accuracy	60.6			
testing accuracy COMMENTS	37.5			
COMMENTS	decreased accur		ıl 72 (padding)	
batch size	128		ii 72 (padding)	
Convolution	64/3,3/relu/na	64/3,3/relu/2,2	128/3.3/relu/na	128/3,3/relu/2,2
Dense Layers	512/500	0 1, 0,0, 1 0.0, 2,2		
actual epochs	. 18	3		
max epochs	100)		
training accuracy	63.9	9		
testing accuracy	38.4	1		
COMMENTS	last layer kernel	size decreased - in	creased overfitting	5

		Tria	l 73 (padding)	
batch size	128		64/2 2/rolu/no	139/2 2/malu/2 2
Convolution Dense Layers	16/3,3/relu/na 512/500	32/3,3/relu/2,2	64/3,3/relu/na	128/3,3/relu/2,2
actual epochs	18	3		
max epochs	100)		
training accuracy	64.8	3		
testing accuracy	37.6			
COMMENTS	crecsendo of filte		l 74 (padding)	
batch size	128		174 (pauding)	
Convolution	16/3,3/relu/na	32/3,3/relu/2,2	64/3,3/relu/na	128/3,3/relu/2,2
Dense Layers	512/500			
actual epochs	20			
max epochs	100			
training accuracy testing accuracy	69.9 38.2			
COMMENTS	reduce last kerne			
	. Casico last item.		l 75 (padding)	
batch size	128			
Convolution	16/3,3/relu/na	32/3,3/relu/2,2	64/4,4/relu/na	128/3,3/relu/2,2
Dense Layers	512/500			
actual epochs max epochs	18 100			
training accuracy	62.7			
testing accuracy	36.5			
COMMENTS				
handa da a	100		l 76 (padding)	
batch size Convolution	100 64/2 3/rolu/pa		256/2-2/rolu/na	512/3,3/relu/2,2
Dense Layers	64/3,3/relu/na 512/500	120/3,3/1014/2,2	250/5,5/Telu/IIa	512/5,5/Telu/2,2
actual epochs	10)		
max epochs	100)		
training accuracy	84	l .		
testing accuracy	39.7			
COMMENTS	overfitting wayyy	• •	LZC (no aldino)	
batch size	100		l 76 (padding)	
Convolution	64/3,3/relu/na		256/3,3/relu/na	256/3,3/relu/2,2
Dense Layers	512/500			
actual epochs	24			
max epochs	100			
training accuracy	58.4			
testing accuracy COMMENTS	38.9 redcued overfitti	ng but didn't impr	ove accuracy	
COMMITTEE	reacaea overniti		I 77 (padding)	
batch size	100			

Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	64/3,3/relu/na 128/3,3/relu/2,2 256/3,3/relu/na 256/3,3/relu/2,2 512/500 100
	Trial 78 switched to CIFAR 10
batch size Convolution Dense Layers actual epochs max epochs training accuracy testing accuracy COMMENTS	100 64/3,3/relu/na 128/3,3/relu/2,2 256/3,3/relu/na 256/3,3/relu/2,2 512/500 100 94.4 74.4 switched to CIFAR10
COMMENTS	Trial 79
batch size	100
Convolution Dense Layers actual epochs	64/3,3/relu/na 128/3,3/relu/2,2 256/3,3/relu/na 256/3,3/relu/2,2 512/500
max epochs	100
training accuracy	65.2
testing accuracy	51
COMMENTS	(drop out layer values went from 0.5 to 0.9)
	Trial 80
batch size Convolution Dense Layers actual epochs	100 64/3,3/relu/na 128/3,3/relu/2,2 256/3,3/relu/na 256/3,3/relu/2,2 512/500
max epochs training accuracy	100 93.9
testing accuracy	74.7
COMMENTS	(drop out layer values went from 0.9 to 0.7)
	Trial 81
batch size Convolution Dense Layers actual epochs	100 64/3,3/relu/na 128/3,3/relu/2,2 256/3,3/relu/na 256/3,3/relu/2,2 512/500
max epochs	100
training accuracy	91.3
	72.2
testing accuracy	72.3
- · · · · · · · · · · · · · · · · · · ·	(drop out layer values went from 0.7 to 0.8)
testing accuracy COMMENTS	(drop out layer values went from 0.7 to 0.8) Trial 81
testing accuracy	(drop out layer values went from 0.7 to 0.8)

actual epochs	27
max epochs	100
training accuracy	95.9
testing accuracy	80.1

COMMENTS normalized images using min max scaling

			Trial 82	
batch size	100			
Convolution	64/3,3/relu/na	128/3,3/relu/2,2	64/3,3/relu/na	128/3,3/relu/2,2
Dense Layers	512/500			
actual epochs				
max epochs	100			
training accuracy	04.7			

max epochs 100 training accuracy 94.7 testing accuracy 78

COMMENTS reduced filter size in larger layers

batch size	100
Convolution	64/3,3/relu/na 128/3,3/relu/2,2 256/3,3/relu/na 512/3,3/relu/2,2
Dense Layers	512/500
actual epochs	27
max epochs	100

Trial 83

max epochs 100
training accuracy 95.9
testing accuracy 80.1

COMMENTS normalized images using min max scaling



256/2,2/relu/na	256	12.2	/re	lu/	/na
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ly bad

and 3 to accommodate

128/2,2/relu/2,2

layer (only get more filters)

256/2,2/relu/2,2

tle)

256/2,2/relu/2,2

256/2,2/relu/2,2

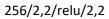
256/2,2/relu/2,2

256/2,2/relu/2,2

256/2,2/relu/2,2

256/2,2/relu/2,2

ffected



256/2,2/relu/2,2

256/2,2/relu/2,2

512/2,2/relu/2,2

, did not help

512/2,2/relu/2,2

512/2,2/relu/2,2

2048/2,2/relu/2,2

2048/2,2/relu/2,2

2048/2,2/relu/na

2048/2,2/relu/na

adding

128/3,3/relu/na 128/3,3/relu/2,2

128/3,3/relu/na 128/2,2/relu/2,2

128/2,2/relu/na 128/2,2/relu/2,2

128/4,4/relu/na 128/4,4/relu/2,2

128/3,3/relu/na 128/2,2/relu/2,2

128/3,3/relu/na 128/2,2/relu/2,2

64/3,3/relu/2,2 128/3,3/relu/na 128/2,2/relu/2,2

256/3,3/relu/na 256/3,3/relu/2,2

256/3,3/relu/na 256/3,3/relu/2,2

256/3,3/relu/na 256/3,3/relu/2,2

256/3,3/relu/na 256/2,2/relu/2,2

256/3,3/relu/na 512/2,2/relu/2,2

256/3,3/relu/na 512/3,3/relu/2,2

1024/3,3/relu/na 2048/3,3/relu/2,2

64/3,3/relu/na 32/3,3/relu/2,2

64/3,3/relu/na 32/3,3/relu/2,2

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