

	Terricology parent (2000 (2) 16 Pg) Terricology parent (2000 (2) Terricology parent (2000 (2) Terricology parent (2000 (2) Terricology parent (2000 (2) Terricology) 2	Layer (======= conv2d_ max_poor g2D) flatter dense_4	======================================	(None Poolin (None (None	e, 94, 94, 94, e, 47, 47, e, 35344)	, 16)	800 0 0 5655					
	Agricology Association	dense_5 ======= Total pa Trainabl Non-trai Epoch 1/ 4/4 [=== val_accu Epoch 2/ 4/4 [=== al_accur Epoch 3/	(Dense) ===================================	(None (2.16 MB) 388 (2.16 MB) 0 (0.00 Byte	e, 4) ====================================	l81ms/step 79ms/step -	- loss	: 2.2590 1.3650	- accuracy:	0.4145	- val_loss:	1.4286 - \
### 14 ### 15 ###	### 1776	Epoch 3/ 4/4 [=== al_accur Epoch 4/ 4/4 [=== al_accur Epoch 5/ 4/4 [=== al_accur Epoch 6/ 4/4 [=== al_accur Epoch 7/ 4/4 [===	30 ====================================		==] - 0s 5 ==] - 0s 5 ==] - 0s 7	57ms/step - 55ms/step - 71ms/step -	loss:	0.94910.86840.8393	accuracy:accuracy:accuracy:	0.55180.61450.6434	<pre>- val_loss: - val_loss: - val_loss:</pre>	2.4160 - v 2.3510 - v 2.0791 - v
### ### ### ### ### ### ### ### ### ##	Piport 12793	al_accur Epoch 8/ 4/4 [=== al_accur Epoch 9/ 4/4 [=== al_accur Epoch 10 4/4 [=== al_accur Epoch 11 4/4 [===	acy: 0.0096 30 ===================================		==] - 0s 7 ==] - 0s 7	71ms/step - 79ms/step - 73ms/step -	loss:	0.69620.63730.5819	accuracy:accuracy:accuracy:	0.71570.75420.7735	<pre>- val_loss: - val_loss: - val_loss:</pre>	2.5044 - v 2.6255 - v 2.5092 - v
### 14% ### 14	### As a function of the contraction of the contrac	Epoch 12 4/4 [=== al_accur Epoch 13 4/4 [=== al_accur Epoch 14 4/4 [=== al_accur Epoch 15 4/4 [=== al_accur	/30 ====================================		==] - 0s 7 ==] - 0s 7	73ms/step - 70ms/step -	loss:	0.45390.4181	accuracy:accuracy:	0.82410.8361	val_loss:val_loss:	2.7038 - v 2.7143 - v
### (==================================	### (==================================	Epoch 16 4/4 [=== al_accur Epoch 17 4/4 [=== al_accur Epoch 18 4/4 [=== al_accur Epoch 19 4/4 [=== al_accur	/30 ====================================	 00 00 	==] - 0s 6 ==] - 0s 6	59ms/step - 58ms/step -	loss:	0.34260.3142	accuracy:accuracy:	0.85780.8699	val_loss:val_loss:	2.9218 - v
al_accuracy: 0.00000+00 fpoch 25/30 4/4 [al_accuracy: 0.0000e+00 [sport 26/30] 4/4 [===================================	4/4 [=== al_accur Epoch 21 4/4 [=== al_accur Epoch 22 4/4 [=== al_accur Epoch 23 4/4 [=== al_accur Epoch 24	======================================	90 90 90	==] - 0s 6 ==] - 0s 6 ==] - 0s 7	51ms/step - 51ms/step - 73ms/step -	loss:	0.25820.24470.2270	accuracy:accuracy:accuracy:	0.87710.88670.8988	<pre>- val_loss: - val_loss: - val_loss:</pre>	3.6820 - N 3.5167 - N 3.5220 - N
Epoch 19/38 4/4 [===================================	Epoch 29/38 4/4 [===================================	al_accur Epoch 25 4/4 [=== al_accur Epoch 26 4/4 [=== al_accur Epoch 27 4/4 [=== al_accur Epoch 28 4/4 [===	acy: 0.0000e+0 /30 ======== acy: 0.0000e+0 /30 ========== /30 acy: 0.0000e+0 /30 ==================================	90 90 90 	==] - 0s 8 ==] - 0s 9 ==] - 0s 6	35ms/step - 92ms/step - 66ms/step -	loss:	0.20350.19680.1874	accuracy:accuracy:accuracy:	0.90120.90120.9205	<pre>- val_loss: - val_loss: - val_loss:</pre>	3.7770 - N 3.6964 - N 3.3799 - N
plt.plat(history_2.history["val_accuracy"], label="Validation Accuracy") plt.xlabel("Number of epochs") plt.ylabel("Training and validation accuracy") plt.title("Learning curve for 7x7") plt.show() plot_new_curve_2() Learning curve for 7x7 0.8 0.9 0.0 0.0 0.0 0.0 0.0 0.0	plt.plot(history_2.history["val_accuracy"], label="Validation Accuracy") plt.xlabel("Number of epochs") plt.vlabel("Training and validation accuracy") plt.stitle("Learning curve for 7x7") plt.snow() plot_new_curve_2() Learning curve for 7x7 0.8 0.0 0.0 Number of epochs The model with the 3x3 filter size has the best accuracy with 57%, while the 5x5 model has the lowest with 45%. Additionally, the 5x5 model has the highest test loss with 2.18, while the 3x3 has the lowest with 1.65. Overall, all the	Epoch 29 4/4 [=== al_accur Epoch 30 4/4 [=== al_accur Test los Test acc]: def plot	/30 ====================================		==] - 0s 6	60ms/step -	loss:	0.1636	- accuracy:			
0.6 0.4 0.2 0.0 0.4 0.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4	0.6 0.6 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9	plt. plt. plt. plt. plt. plt.	plot(history_2 plot(history_2 xlabel("Number ylabel("Traini title("Learnin grid(True) show()	2.history["ac 2.history["va r of epochs") ing and valid ng curve for	al_accurad) dation acc 7x7")	cy"], label	="Vali					
0.0 0 5 10 15 20 25 30 Number of epochs The model with the 3x3 filter size has the best accuracy with 57%, while the 5x5 model has the lowest with 45%. Additionally, the 5x5 model has the highest test loss with 2.18, while the 3x3 has the lowest with 1.65. Overall, all the	0.0 0 5 10 15 20 25 30 Number of epochs The model with the 3x3 filter size has the best accuracy with 57%, while the 5x5 model has the lowest with 45%. Additionally, the 5x5 model has the highest test loss with 2.18, while the 3x3 has the lowest with 1.65. Overall, all the											
Additionally, the 5x5 model has the highest test loss with 2.18, while the 3x3 has the lowest with 1.65. Overall, all the	Additionally, the 5x5 model has the highest test loss with 2.18, while the 3x3 has the lowest with 1.65. Overall, all the	0.0 -			Number	of epochs					st with 45%.	
		Addition	ally, the 5x5 mod	ilter size has th del has the hig	ne best acc	curacy with 5 oss with 2.18	, while	the 3x3 h	nas the lowes	t with 1.6		the