SVM Testing

U	p	d	a	t	e	

- Trained mobnetv2 with a new dataset. Here are the results.

Trained Mobnet 2 Confusion Matrix Accuracy: 0.845

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anthro	39	6	5	
bio	1	43	2	4
geo	1	3	45	1
geo	1	3	4	42

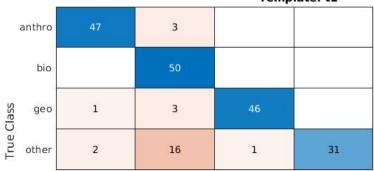
78.0%	22.0%
86.0%	14.0%
90.0%	10.0%
84.0%	16.0%

92.9%	78.2%	80.4%	89.4%	
7.1%	21.8%	19.6%	10.6%	
anthro	bio	geo	other	
		Predicted Class		

accuracy = 0.854

- SVM confusion matrices and f-scores using the same training and testing data as the above network
- Features extracted from layer 'block_11_add' of our trained mobnetv2

TrainedMobnet Layer: block 11 add Template: t1



94.0%	6.0%
100.0%	
92.0%	8.0%
62.0%	38.0%

94.0%	69.4%	97.9%	100.0%	
6.0%	30.6%	2.1%		
anthro	bio	geo	other	
		Predicted Class		

accuracy = 0.8700

 $fScore = 1 \times 4$

0.9400 0.8197 0.9485 0.7654

avg f score = 0.8684

TrainedMobnet Layer: block 11 add Template: t2

	anthro	39	10	1	
	bio	1	46	2	1
Class	geo	3	4	42	1
True Class	other	1	4	9	36

78.0%	22.0%
92.0%	8.0%
84.0%	16.0%
72.0%	28.0%

88.6%	71.9%	77.8%	94.7%
11.4%	28.1%	22.2%	5.3%
anthro	bio	geo	other

Predicted Class

accuracy = 0.8150

 $fScore = 1 \times 4$

 $avg_f_score = 0.8157$

TrainedMobnet Layer: block 11 add Template: t3

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	anthro	39	9	1	1
	bio	1	44	3	2
Class	geo	3	4	42	1
True Class	other	2	4	6	38

78.0%	22.0%
88.0%	12.0%
84.0%	16.0%
76.0%	24.0%

86.7%	72.1%	80.8%	90.5%
13.3%	27.9%	19.2%	9.5%
anthro	bio	geo	other

accuracy = 0.8150

 $fScore = 1 \times 4$

0.8211 0.7928 0.8235 0.8261

avg f score = 0.8159

TrainedMobnet Layer: block 11 add Template: t4

Predicted Class

anthro		48	2			
	bio		50			
lass	geo		2	48		
True Class	other		2	1	47	
	8		,			

96.0%	4.0%
100.0%	
96.0%	4.0%
94.0%	6.0%

100.0%	89.3%	98.0%	100.0%
	10.7%	2.0%	
anthro	bio	geo	other
		Predicted Class	

accuracy = 0.9650

 $fScore = 1 \times 4$

0.9796 0.9434 0.9697 0.9691

avg f score = 0.9654