Model 1 ANN report:

Epoch 1/15
26/26 [=======] - 0s 5ms/step - loss: 8.9997 - accuracy: 0.1044
Epoch 2/15
26/26 [======] - 0s 6ms/step - loss: 2.4429 - accuracy: 0.1238
Epoch 3/15
26/26 [=======] - 0s 6ms/step - loss: 2.3656 - accuracy: 0.1408
Epoch 4/15
26/26 [======] - 0s 5ms/step - loss: 2.2423 - accuracy: 0.2002
Epoch 5/15
26/26 [======] - 0s 5ms/step - loss: 2.1679 - accuracy: 0.2002
Epoch 6/15
26/26 [=======] - 0s 5ms/step - loss: 2.0217 - accuracy: 0.2998
Epoch 7/15
26/26 [=======] - 0s 5ms/step - loss: 1.9101 - accuracy: 0.3240
Epoch 8/15
26/26 [=======] - 0s 5ms/step - loss: 1.7953 - accuracy: 0.3714
Epoch 9/15
26/26 [=======] - 0s 5ms/step - loss: 1.6128 - accuracy: 0.4296
Epoch 10/15
26/26 [=======] - 0s 5ms/step - loss: 1.5462 - accuracy: 0.4381
Epoch 11/15
26/26 [======] - 0s 5ms/step - loss: 1.4878 - accuracy: 0.4490
Epoch 12/15
26/26 [======] - 0s 5ms/step - loss: 1.3460 - accuracy: 0.5085
Epoch 13/15
26/26 [======] - 0s 5ms/step - loss: 1.2964 - accuracy: 0.5255
Epoch 14/15
26/26 [======] - 0s 5ms/step - loss: 1.2015 - accuracy: 0.5825
Epoch 15/15
26/26 [======] - 0s 5ms/step - loss: 1.0374 - accuracy: 0.6396
Model Evaluation
26/26 [======] - 0s 3ms/step - loss: 1.4702 - accuracy: 0.4909
Epoch 1/15
26/26 [=======] - 0s 5ms/step - loss: 1.3612 - accuracy: 0.5152
Epoch 2/15
26/26 [=======] - 0s 5ms/step - loss: 1.3793 - accuracy: 0.4982
Epoch 3/15

26/26 [======	=] - 0s 5ms/step - loss: 1.3333 - accuracy: 0.5115
Epoch 4/15	
26/26 [=] - 0s 5ms/step - loss: 1.2187 - accuracy: 0.5564
Epoch 5/15	
26/26 [=====	=] - 0s 5ms/step - loss: 1.1728 - accuracy: 0.5782
Epoch 6/15	
26/26 [=====	=] - 0s 5ms/step - loss: 1.1394 - accuracy: 0.5976
Epoch 7/15	
26/26 [======	=] - 0s 5ms/step - loss: 1.0484 - accuracy: 0.6279
Epoch 8/15	
26/26 [=====	=] - 0s 5ms/step - loss: 1.0186 - accuracy: 0.6642
Epoch 9/15	
26/26 [=====	=] - 0s 5ms/step - loss: 1.0152 - accuracy: 0.6412
Epoch 10/15	
26/26 [=====	=] - 0s 5ms/step - loss: 0.8234 - accuracy: 0.7152
Epoch 11/15	
26/26 [=====	=] - 0s 5ms/step - loss: 1.1219 - accuracy: 0.6194
Epoch 12/15	
26/26 [=====	=] - 0s 5ms/step - loss: 0.9255 - accuracy: 0.6764
Epoch 13/15	
26/26 [=====	=] - 0s 5ms/step - loss: 0.9480 - accuracy: 0.6545
Epoch 14/15	
26/26 [=====	=] - 0s 5ms/step - loss: 0.8653 - accuracy: 0.6982
Epoch 15/15	
26/26 [======	=] - 0s 5ms/step - loss: 0.7444 - accuracy: 0.7406
Model Evaluation	
26/26 [======	=] - 0s 3ms/step - loss: 0.7057 - accuracy: 0.7876

precision	recall	f1-score	support		
0.0	0.	66	0.95	0.78	43
1.0	0.	79	0.75	0.77	40
2.0	0.	83	0.63	0.72	38
3.0	0.	77	0.77	0.77	39
4.0	0.	61	0.64	0.62	44
5.0	0.	58	0.90	0.71	39
6.0	0.	77	0.61	0.68	44
7.0	0.	63	0.68	0.65	40
8.0	0.	69	0.66	0.68	38
9.0	0.	88	0.46	0.60	48
accuracy				0.70	413
macro avq	0.	72	0.70	0.70	413
weighted avg	0.	72	0.70	0.70	413
				·	

Model 2 ANN report:

Epoch 1/15

Lpoen 715
26/26 [=====] - 0s 5ms/step - loss: 10.4169 - accuracy: 0.1044
Epoch 2/15
26/26 [======] - 0s 5ms/step - loss: 2.5184 - accuracy: 0.1335
Epoch 3/15
26/26 [======] - 0s 5ms/step - loss: 2.2559 - accuracy: 0.2039
Epoch 4/15
26/26 [======] - 0s 5ms/step - loss: 2.1146 - accuracy: 0.2415
Epoch 5/15
26/26 [=====] - 0s 5ms/step - loss: 1.9758 - accuracy: 0.3070
Epoch 6/15
26/26 [=====] - 0s 5ms/step - loss: 1.9172 - accuracy: 0.3362
Epoch 7/15
26/26 [=====] - 0s 5ms/step - loss: 1.7418 - accuracy: 0.4029
Epoch 8/15
26/26 [=====] - 0s 5ms/step - loss: 1.5739 - accuracy: 0.4223
Epoch 9/15
26/26 [=====] - 0s 5ms/step - loss: 1.4718 - accuracy: 0.4915
Epoch 10/15
26/26 [=====] - 0s 5ms/step - loss: 1.2834 - accuracy: 0.5522
Epoch 11/15
26/26 [=====] - 0s 5ms/step - loss: 1.3028 - accuracy: 0.5461
Epoch 12/15

26/26 [=====	=] - 0s 5ms/step - loss: 1.3164 - accuracy: 0.5449
Epoch 13/15	
26/26 [=====	=] - 0s 5ms/step - loss: 1.1732 - accuracy: 0.6007
Epoch 14/15	
26/26 [=====	=] - 0s 5ms/step - loss: 1.1077 - accuracy: 0.6153
Epoch 15/15	
26/26 [======	=] - 0s 5ms/step - loss: 1.0585 - accuracy: 0.6238
Model Evaluation	
26/26 [======	=] - 0s 3ms/step - loss: 1.4163 - accuracy: 0.4861
Epoch 1/15	
26/26 [====================================	=] - 0s 5ms/step - loss: 1.2705 - accuracy: 0.5588
Epoch 2/15	
26/26 [====================================	=] - 0s 5ms/step - loss: 1.1765 - accuracy: 0.5891
Epoch 3/15	
26/26 [=====	=] - 0s 5ms/step - loss: 1.2446 - accuracy: 0.5527
Epoch 4/15	
26/26 [====================================	=] - 0s 5ms/step - loss: 1.0105 - accuracy: 0.6400
Epoch 5/15	
26/26 [=====	=] - 0s 5ms/step - loss: 1.1606 - accuracy: 0.5964
Epoch 6/15	
26/26 [====================================	=] - 0s 5ms/step - loss: 1.0406 - accuracy: 0.6291
Epoch 7/15	
26/26 [====================================	=] - 0s 5ms/step - loss: 0.9009 - accuracy: 0.6873
Epoch 8/15	
26/26 [====================================	=] - 0s 5ms/step - loss: 0.8517 - accuracy: 0.6994
Epoch 9/15	
26/26 [====================================	=] - 0s 5ms/step - loss: 0.8278 - accuracy: 0.7224
Epoch 10/15	
26/26 [======	=] - 0s 5ms/step - loss: 0.9238 - accuracy: 0.6739
Epoch 11/15	
26/26 [======	=] - 0s 5ms/step - loss: 1.0960 - accuracy: 0.6279
Epoch 12/15	
26/26 [======	=] - 0s 5ms/step - loss: 1.0421 - accuracy: 0.6339
Epoch 13/15	
26/26 [=====	=] - 0s 5ms/step - loss: 0.9696 - accuracy: 0.6448
Epoch 14/15	
26/26 [=====	=] - 0s 5ms/step - loss: 0.8360 - accuracy: 0.7164
Epoch 15/15	
26/26 [======	=] - 0s 5ms/step - loss: 0.7606 - accuracy: 0.7418

ľ	precision		recall	f1	-score	S	upport			
		0.0	(0.77	(.86		0.81	_	43
		1.0		0.79	(.82		0.80)	40
		2.0		0.70	(.79		0.74	1	38
		3.0		0.93	(.69		0.79	9	39
		4.0		0.42	(.66		0.51	[44
		5.0		0.84	(.67		0.74	1	39
		6.0		0.67	(.73		0.70		44
		7.0		0.57	(.75		0.65	5	40
		8.0		0.80	(.21		0.33	3	38
		9.0		0.88	(.73		0.80		48
	accur	acy						0.69	9	413
	macro	-		0.74		.69		0.69	9	413
7	weighted		(0.73		.69		0.69		413
		- J								

Model CNN report:

26/26 [======] - 0s 17ms/step - loss: 0.0017 - accuracy: 1.0000	
Epoch 12/15	
26/26 [======] - 0s 17ms/step - loss: 0.0015 - accuracy: 1.0000	
Epoch 13/15	
26/26 [======] - 0s 17ms/step - loss: 0.0012 - accuracy: 1.0000	
Epoch 14/15	
26/26 [=====] - 0s 17ms/step - loss: 9.9690e-04 - accuracy: 1.000	00
Epoch 15/15	
26/26 [=====] - 0s 17ms/step - loss: 8.5240e-04 - accuracy: 1.000	00
Model Evaluation	
26/26 [=====] - 0s 10ms/step - loss: 0.7949 - accuracy: 0.8376	
Epoch 1/15	
26/26 [=====] - 0s 17ms/step - loss: 1.0649 - accuracy: 0.7067	
Epoch 2/15	
26/26 [======] - 0s 17ms/step - loss: 0.3075 - accuracy: 0.9091	
Epoch 3/15	
26/26 [=====] - 0s 17ms/step - loss: 0.1012 - accuracy: 0.9758	
Epoch 4/15	
26/26 [======] - 0s 17ms/step - loss: 0.0451 - accuracy: 0.9903	
Epoch 5/15	
26/26 [======] - 0s 17ms/step - loss: 0.0172 - accuracy: 0.9988	
Epoch 6/15	
26/26 [======] - 0s 17ms/step - loss: 0.0072 - accuracy: 1.0000	
Epoch 7/15	
26/26 [======] - 0s 17ms/step - loss: 0.0042 - accuracy: 1.0000	
Epoch 8/15	
26/26 [=====] - 0s 17ms/step - loss: 0.0027 - accuracy: 1.0000	
Epoch 9/15	
26/26 [======] - 0s 17ms/step - loss: 0.0021 - accuracy: 1.0000	
Epoch 10/15	
26/26 [=====] - 0s 17ms/step - loss: 0.0017 - accuracy: 1.0000	
Epoch 11/15	
26/26 [=====] - 0s 17ms/step - loss: 0.0014 - accuracy: 1.0000	
Epoch 12/15	
26/26 [=====] - 0s 17ms/step - loss: 0.0012 - accuracy: 1.0000	
Epoch 13/15	
26/26 [=====] - 0s 17ms/step - loss: 0.0011 - accuracy: 1.0000	
Epoch 14/15	
26/26 [======] - 0s 17ms/step - loss: 9.5376e-04 - accuracy: 1.000	00

Model Evaluation

precision	recall	f1-score	support		
0.0	1.	00	0.95	0.98	43
1.0	0.	95	0.88	0.91	40
2.0	0.	89	0.82	0.85	38
3.0	0.	90	0.90	0.90	39
4.0	0.	87	0.75	0.80	44
5.0	0.	93	0.97	0.95	39
6.0	0.	71	0.80	0.75	44
7.0	0.	79	0.85	0.82	40
8.0	0.	77	0.79	0.78	38
9.0	0.	84	0.90	0.87	48
accuracy				0.86	113
macro avg	0.	86	0.86	0.86	113
weighted avg	0.	86	0.86	0.86	413

Model SVM report:

precision	recall f1	-score s	upport	
0.0	0.89	0.98	0.93	43
1.0	0.97 0.84	0.88 0.84	0.92 0.84	40 38
3.0 4.0	1.00 0.73	0.79 0.61	0.89 0.67	39 44
5.0 6.0	0.86 0.74	0.95 0.84	0.90	39 44
7.0 8.0	0.68	0.75	0.71	40 38
9.0	0.84	0.85	0.85	48
accuracy			0.83	413
macro avg weighted avg	0.84 0.84	0.83 0.83	0.83 0.83	413 413