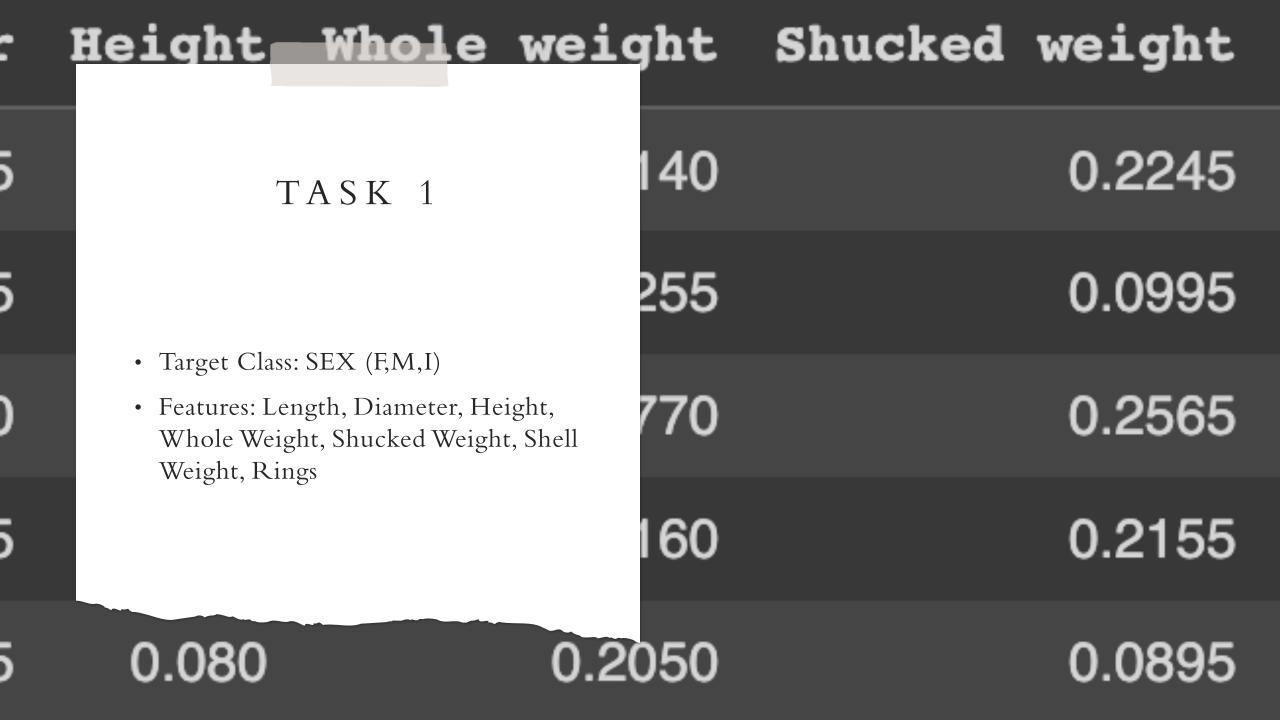
NAÏVE BAYES & KNN

Hosna Habibi

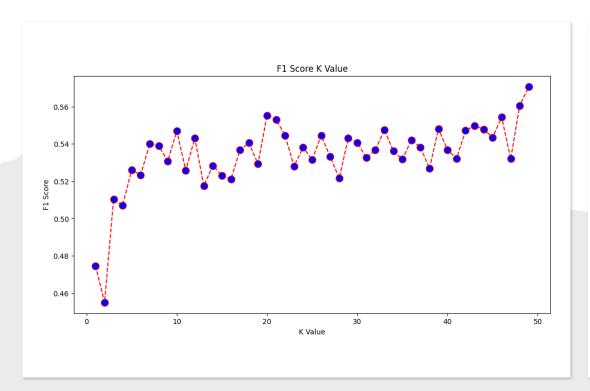
DATA

4177 Sample

	Sex	Length	Diameter	Height	Whole weight	Shucked weight	Viscera weight	Shell_weight	Rings
0	М	0.455	0.365	0.095	0.5140	0.2245	0.1010	0.150	15
1	М	0.350	0.265	0.090	0.2255	0.0995	0.0485	0.070	7
2	F	0.530	0.420	0.135	0.6770	0.2565	0.1415	0.210	9
3	М	0.440	0.365	0.125	0.5160	0.2155	0.1140	0.155	10
4	ı	0.330	0.255	0.080	0.2050	0.0895	0.0395	0.055	7



KNN



>		precision	recall	f1-score	support	
	0	0.49	0.40	0.44	131	
	1	0.68	0.81	0.74	126	
	2	0.52	0.52	0.52	161	
2001172	~ 177			0.57	418	
accura		0.56	0.58	0.57	418	
macro a	_			0.56		
weighted a	vg	0.56	0.57	0.56	418	

				-										
Fold 1 :	precision	recall	f1-score	support	Fold 4:	precision	recall	f1-score	support	Fold 7 :	precision	recall	f1-score	support
0	0.45	0.32	0.37	164	0	0.37	0.39	0.38	97		-			
1	0.42	0.85	0.56	78	1	0.37	0.69	0.38	197	0	0.41	0.25	0.31	113
2	0.42	0.38	0.42	176	2	0.87	0.69	0.77	124	1	0.87	0.87	0.87	171
2	0.47	0.30	0.42	170	2	0.43	0.55	0.48	124	2	0.48	0.63	0.54	134
accuracy			0.44	418	accuracy			0.58	418	accuracy			0.63	418
macro avg	0.44	0.51	0.45	418	macro avg	0.56	0.54	0.54	418	macro avg	0.59	0.58	0.57	418
weighted avg	0.45	0.44	0.43	418	weighted avg	0.62	0.58	0.59	418	weighted avg	0.62	0.63	0.61	418
Fold 2 :					 Fold 5 :					7-1-1 0				
1014 2 .	precision	recall	f1-score	support	roid 5 :	precision	recall	f1-score	support	Fold 8 :	precision	maga11	f1-score	support
	Proorbron	100411	11 20010	Duppolo		precipion	rcourr	II beele	bupport		precision	recarr	II-score	support
0	0.39	0.29	0.33	144	0	0.39	0.39	0.39	121	0	0.46	0.36	0.41	160
1	0.44	0.51	0.47	114	1	0.73	0.73	0.73	132	1	0.59	0.69	0.64	91
2	0.38	0.42	0.40	160	2	0.49	0.49	0.49	165	2	0.47	0.52	0.50	166
accuracy			0.40	418	accuracy			0.54	418	accuracy			0.50	417
macro avg	0.40	0.41	0.40	418	macro avg	0.54	0.54	0.54	418	macro avg	0.51	0.53	0.51	417
weighted avg	0.40	0.40	0.40	418	weighted avg	0.54	0.54	0.54	418	weighted avg	0.49	0.50	0.49	417
Fold 3 :					 Fold 6 :					 Fold 9 :				
1014 0 1	precision	recall	f1-score	support	1014 0 1	precision	recall	f1-score	support	roid y .	precision	recall	f1-score	support
0	0.45	0.42	0.43	113	0	0.44	0.37	0.40	158	0	0.35	0.34	0.34	111
1	0.78	0.97	0.86	163	1	0.44	0.62	0.52	93	1	0.81	0.78	0.80	169
2	0.53	0.42	0.47	142	2	0.41	0.38	0.39	167	2	0.43	0.45	0.44	137
accuracy			0.63	418	accuracy			0.43	418	accuracy			0.56	417
macro avg	0.59	0.60	0.59	418	macro avg	0.43	0.46	0.44	418	macro avg	0.53	0.53	0.53	417
weighted avg	0.61	0.63	0.61	418	weighted avg	0.43	0.43	0.42	418	weighted avg	0.56	0.56	0.56	417

Average Accuracy score: 0.5257438068683808

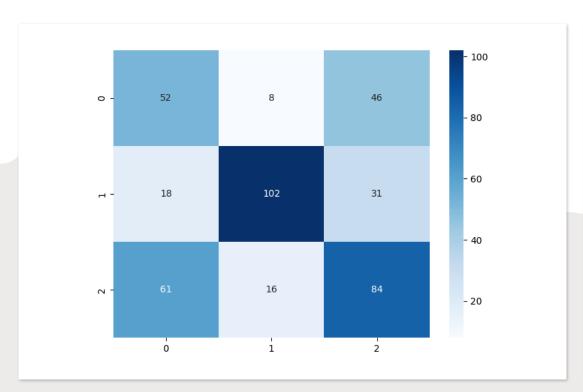
Average Precision score: 0.526666285271771

Average Recall score: 0.5257438068683808

Average f1_score score: 0.5206245145635

Fold 10 :				
	precision	recall	f1-score	support
O	0.44	0.39	0.41	126
1	0.72	0.76	0.74	134
2	0.49	0.51	0.50	157
accuracy	,		0.55	417
macro avo	0.55	0.55	0.55	417
weighted avg	0.55	0.55	0.55	417

MODEL EVALUATION



	precision	recall	f1-score	support
0	0.49	0.40	0.44	131
1	0.68	0.81	0.74	126
2	0.52	0.52	0.52	161
accuracy			0.57	418
macro avg	0.56	0.58	0.57	418
weighted avg	0.56	0.57	0.56	418

• Test score 0.569377990430622

Fold 1 :					Fold 4:				
	precision	recall	f1-score	support	,	precision	recall	f1-score	sup
0	0.48	0.53	0.51	164	0	0.39	0.75	0.51	
1	0.41	1.00	0.59	78	1		0.67		
2	0.44	0.12	0.19	176	2		0.18	0.22	
accuracy			0.45	418	accuracy			0.54	
macro avg	0.45	0.55	0.43	418	macro avg		0.53	0.50	
weighted avg	0.45	0.45	0.39	418	weighted avg				
Fold 2 :					 Fold 5 :				
1014 2 .	precision	recall	f1-score	support		precision	recall	f1-score	su
0	0.52	0.38	0.44	144	0	0.40	0.83	0.54	
1	0.39	0.75	0.51	114	1			0.76	
2	0.42	0.26	0.32	160	2		0.10		
accuracy				418	accuracy			0.51	
macro avg	0.45		0.42	418	macro avg	0.53	0.56	0.49	
weighted avg	0.45	0.43	0.41	418	weighted avg	0.53	0.51	0.46	
Fold 3:	precision	recall	f1-score	support	Fold 6 :	precision	recall	f1_score	GIII
•	0.40	0.75	0.50	110		-			bul
0	0.48			113	0	0.47	0.46	0.46	
1		0.98		163	1	0.36	0.81	0.50	
2	0.58	0.18	0.27	142	2	0.46	0.16	0.23	
accuracy			0.65	418	accuracy			0.41	
macro avg	0.62	0.64	0.58	418	macro avg		0.47		
weighted avg	0.64	0.65	0.60	418	weighted avg		0.41	0.40	

Fold 7 :					
		precision	recall	f1-score	suppo
	0	0.44	0.74	0.55	1
	1	0.87	0.85	0.86	1
	2	0.35	0.16	0.22	1
accur	асу			0.60	4
macro	avg	0.56	0.59	0.55	4
weighted	avg	0.59	0.60	0.57	4
Fold 8 :					
		precision	recall	f1-score	suppo
	0	0.50	0.68	0.58	1
	1	0.49	0.78	0.60	
	2	0.51	0.16	0.25	1
accur	асу			0.50	4
macro	avg	0.50	0.54	0.47	4
weighted	avg	0.50	0.50	0.45	4
Fold 9 :					
1014 7 .		precision	recall	f1-score	suppo
	0	0.44	0.74	0.55	1
	1	0.76	0.80	0.78	1
	2	0.46	0.18	0.26	1
				0.58	4
accur	acy				
accur macro	-	0.56	0.58	0.53	4

support

support

Average Accuracy score: 0.5183223755923491

Average Precision score: 0.5250662853998318

Average Recall score: 0.5183223755923491

Average f1_score score: 0.48236509050621673

Fold 1	0:				
		precision	recall	f1-score	support
	0	0.46	0.70	0.55	126
	1	0.64	0.74	0.69	134
	2	0.36	0.16	0.22	157
3.0	auraau			0 51	417

0.49

0.48

macro avg

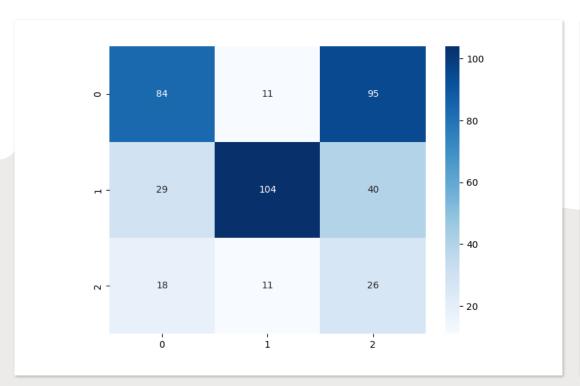
weighted avg

0.53

0.51

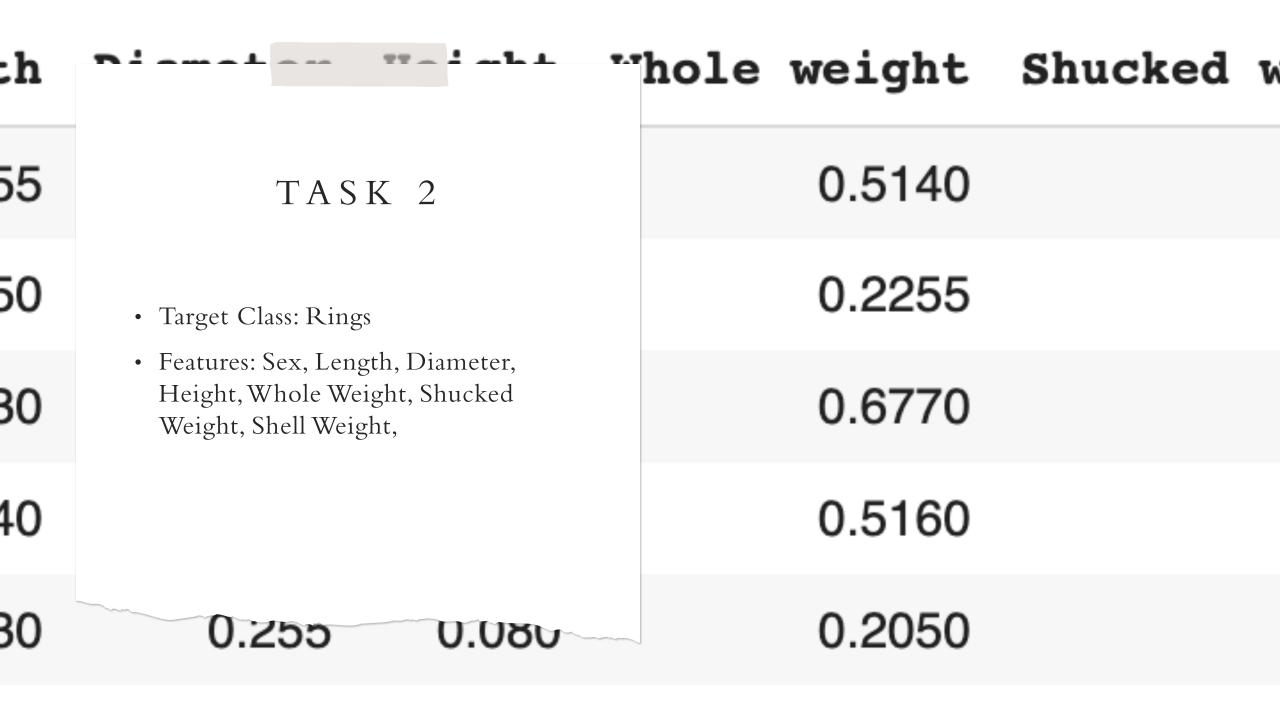
417

MODEL EVALUATION



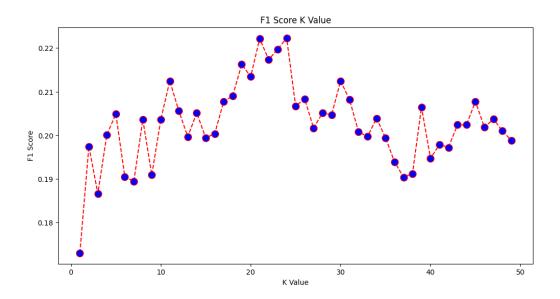
	precision	recall	f1-score	support
0	0.44	0.64	0.52	131
1	0.60	0.83	0.70	126
2	0.47	0.16	0.24	161
accuracy			0.51	418
macro avg	0.51	0.54	0.49	418
weighted avg	0.50	0.51	0.47	418

• Test score 0.5119617224880383



KNN

• Best K=23



	precision	recall	f1-score	support
3	0.00	0.00	0.00	2
4	0.25	0.50	0.33	4
5	0.17	0.12	0.14	8
6	0.28	0.33	0.30	24
7	0.28	0.28	0.28	39
8	0.17	0.29	0.22	49
9	0.25	0.24	0.24	74
10	0.27	0.41	0.33	71
11	0.22	0.26	0.24	43
12	0.50	0.15	0.23	33
13	0.00	0.00	0.00	16
14	0.00	0.00	0.00	15
15	0.00	0.00	0.00	12
16	0.33	0.12	0.18	8
17	0.00	0.00	0.00	5
18	0.00	0.00	0.00	7
19	0.00	0.00	0.00	3
20	0.00	0.00	0.00	2
21	0.00	0.00	0.00	3
accuracy			0.24	418
macro avg	0.14	0.14	0.13	418
weighted avg	0.23	0.24	0.22	418

Fold 1 :					Fold 2 :					Fold 3 :				
	precision	recall	f1-score	support		precision	recall	f1-score	support		precision	recall	f1-score	support
1	0.00	0.00	0.00	1	2	0.00	0.00	0.00	1	3	0.00	0.00	0.00	2
3	0.00	0.00	0.00	3	3	0.00	0.00	0.00	3	4	0.60	0.30	0.40	10
4	0.42	0.62	0.50	8	4	0.27	0.43	0.33	7	5	0.35	0.27	0.31	22
5	0.50	0.46	0.48	13	5	0.18	0.25	0.21	12	6	0.42	0.26	0.32	57
6	0.24	0.67	0.36	12	6	0.19	0.35	0.25	23	7	0.37	0.41	0.39	64
7	0.25	0.17	0.20	35	7	0.16	0.23	0.19	31	8	0.36	0.27	0.31	81
8	0.20	0.25	0.23	36	8	0.05	0.21	0.09	14	9	0.31	0.43	0.36	76
9	0.14	0.31	0.19	49	9	0.08	0.23	0.12	35	10	0.30	0.40	0.34	50
10	0.14	0.27	0.18	55	10	0.08	0.15	0.10	47	11	0.24	0.32	0.28	37
11		0.03	0.03	32	11	0.04	0.02	0.03	47	12	0.29	0.14	0.19	14
12		0.05	0.07	38	12	0.17	0.08	0.11	36	14	0.00	0.00	0.00	2
13		0.11	0.14	28	13	0.07	0.02	0.03	43	15	0.00	0.00	0.00	1
14		0.00	0.00	28	14	0.25	0.05	0.08	20	17	0.00	0.00	0.00	2
15		0.00	0.00	23	15	0.00	0.00	0.00	28					_
16		0.00	0.00	16	16	0.00	0.00	0.00	13	accuracy			0.33	418
17		0.00	0.00	6	17	0.00	0.00	0.00	20	macro avq	0.25	0.22	0.22	418
18	0.00	0.00	0.00	7	18	0.00	0.00	0.00	11	weighted avg	0.34	0.33	0.33	418
19	0.00	0.00	0.00	8	19	0.00	0.00	0.00	9	weighted avg	0.34	0.55	0.33	410
20	0.00	0.00	0.00	10	20	0.00	0.00	0.00	6					
21	0.00	0.00	0.00	3	21	0.00	0.00	0.00	6					
22	0.00	0.00	0.00	4	22	0.00	0.00	0.00	2					
23		0.00	0.00	2	23	0.00	0.00	0.00	3					
26	0.00	0.00	0.00	1	29	0.00	0.00	0.00	1					
accuracy			0.17	418	accuracy			0.11	418					
macro avg	0.10	0.13	0.10	418	macro avg	0.07	0.09	0.07	418					
weighted avg	0.13	0.17	0.14	418	weighted avg	0.09	0.11	0.08	418					

Fold 3 :														
	precision	recall	f1-score	support	Fold 4 :					Fold 5 :				
						precision	recall	f1-score	support		precision	recall	f1-score	support
	3 0.00	0.00	0.00	2										
	4 0.60	0.30	0.40	10	3	0.00	0.00	0.00	1	4	0.50	0.67	0.57	3
	5 0.35	0.27	0.31	22	4	0.00	0.00	0.00	1	5	0.27	0.43	0.33	7
	6 0.42	0.26	0.32	57	5	0.25	0.11	0.15	9	6	0.44	0.35	0.39	20
	7 0.37	0.41	0.39	64	6	0.20	0.22	0.21	18	7	0.38	0.32	0.34	38
	8 0.36	0.27	0.31	81	7	0.32	0.38	0.35	42	8	0.40	0.41	0.40	56
					8	0.34	0.38	0.36	89	9	0.32	0.38	0.34	88
	9 0.31	0.43	0.36	76	9	0.34	0.36	0.35	101	10	0.29	0.42	0.34	84
	0.30	0.40	0.34	50	10	0.40	0.36	0.38	91	11	0.27	0.24	0.26	70
1	1 0.24	0.32	0.28	37	11	0.37	0.44	0.40	39	12	0.38	0.09	0.15	33
1	2 0.29	0.14	0.19	14	12	0.00	0.00	0.00	18	13	0.00	0.00	0.00	12
1	4 0.00	0.00	0.00	2	13	0.00	0.00	0.00	6	14	0.00	0.00	0.00	4
1	5 0.00	0.00	0.00	1	14	0.00	0.00	0.00	2	15	0.00	0.00	0.00	2
	7 0.00	0.00	0.00	2	15	0.00	0.00	0.00	1	16	0.00	0.00	0.00	1
					accuracy			0.34	418	accuracy			0.32	418
accurac	y		0.33	418	macro avg		0.17	0.17	418	macro avg	0.25	0.25	0.24	418
macro av	g 0.25	0.22	0.22	418	weighted avg		0.34	0.33	418	weighted avg	0.32	0.32	0.31	418
weighted av	g 0.34	0.33	0.33	418	ozgiicod uvg	0.52	0.51	0.33	110					

Fold 6:

	precision	recall	f1-score	support					
					Fold 7 :				
3	0.00	0.00	0.00	2		precision	recall	f1-score	support
4	0.43	1.00	0.60	3		-			
5	0.35	0.54	0.42	13	3	0.00	0.00	0.00	1
6	0.36	0.33	0.35	24					
7	0.16	0.18	0.17	28	4	0.67	0.22	0.33	9
8	0.13	0.23	0.17	30	5	0.36	0.45	0.40	11
9	0.10	0.24	0.14	42	6	0.31	0.28	0.29	29
10	0.09	0.26	0.13	43	7	0.46	0.38	0.42	58
11 12	0.14 0.17	0.14	0.14	35 37	8	0.48	0.44	0.46	91
13	0.17	0.05	0.08	39	9				93
14	0.00	0.00	0.00	34		0.37	0.44	0.40	
15	0.00	0.00	0.00	20	10	0.33	0.32	0.32	66
16	0.00	0.00	0.00	15	11	0.20	0.32	0.24	38
17	0.00	0.00	0.00	19	12	0.11	0.09	0.10	11
18	0.00	0.00	0.00	12	13	0.00	0.00	0.00	9
19	0.00	0.00	0.00	7	14	0.00	0.00	0.00	1
20	0.00	0.00	0.00	5	15	0.00	0.00	0.00	1
21	0.00	0.00	0.00	3	15	0.00	0.00	0.00	1
23	0.00	0.00	0.00	4					
25	0.00	0.00	0.00	1	accuracy			0.36	418
27	0.00	0.00	0.00	2	macro avg	0.25	0.23	0.23	418
				***	weighted avg	0.37	0.36	0.36	418
accuracy	0.10		0.14	418					
macro avg	0.10	0.14	0.10	418					
weighted avg	0.12	0.14	0.12	418					

Average Accuracy score: 0.2556894197560612

Average Precision score: 0.24523634603844607

Average Recall score: 0.2556894197560612

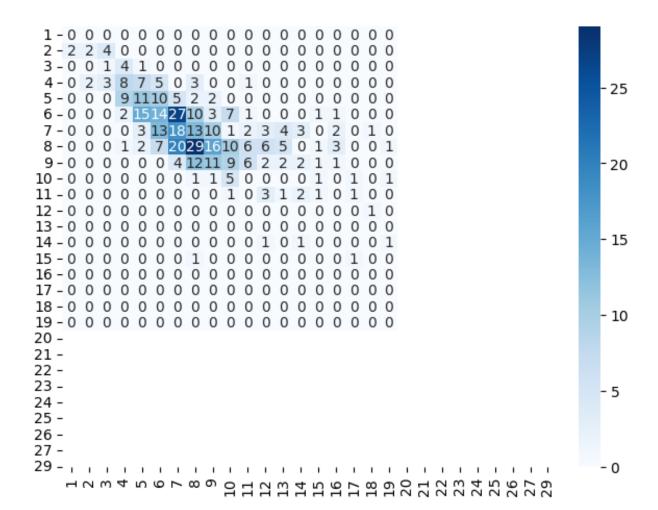
Average f1_score score: 0.23845617036967598

Fold 10 :				
	precision	recall	f1-score	support
3	0.00	0.00	0.00	1
4	0.67	0.57	0.62	7
5	0.20	0.33	0.25	6
6	0.37	0.21	0.27	33
7	0.22	0.30	0.25	30
8	0.43	0.40	0.41	60
9	0.22	0.39	0.28	67
10	0.28	0.39	0.33	72
11	0.36	0.28	0.31	61
12	0.36	0.16	0.22	25
13	0.22	0.11	0.14	19
14	0.00	0.00	0.00	11
15	0.00	0.00	0.00	8
16	0.00	0.00	0.00	8
17	0.00	0.00	0.00	2
18	0.00	0.00	0.00	2
19	0.00	0.00	0.00	2
20	0.00	0.00	0.00	2
21	0.00	0.00	0.00	1
accuracy			0.29	417
macro avg	0.18	0.17	0.16	417
weighted avg	0.29	0.29	0.28	417

,	Fold 9 :				
		precision	recall	f1-score	support
	3	0.00	0.00	0.00	2
	4	0.40	0.40	0.40	5
	5	0.36	0.33	0.35	12
	6	0.46	0.41	0.44	29
	7	0.23	0.33	0.27	43
	8	0.34	0.34	0.34	71
	9	0.34	0.34	0.34	78
	10	0.32	0.30	0.25	72
	11	0.34	0.38	0.36	53
	12	0.29	0.12	0.17	16
	13	1.00	0.12	0.17	18
	14	0.00	0.00	0.00	4
	15	0.00	0.00	0.00	2
	16	0.00	0.00	0.00	2
	17	0.00	0.00	0.00	2
	18	0.00	0.00	0.00	3
	19	0.00	0.00	0.00	4
	20	0.00	0.00	0.00	1
				0 20	417
	accuracy			0.30	417
	macro avg	0.22	0.17	0.17	417
	weighted avg	0.32	0.30	0.29	417

MODEL EVALUATION

Test score 0.23923444976076555



Fold 1 :					Fold 2 :					Fold 3:				
	precision	recall	f1-score	support		precision	recall	f1-score	support		precision	recall	f1-score	support
1	0.00	0.00	0.00	1	2	0.00	0.00	0.00	1	3	0.25	0.50	0.33	2
3	0.29	0.67	0.40	3	3	0.21	1.00	0.35	3	4	0.31	0.40	0.35	10
4	0.29	0.50	0.36	8	4	0.00	0.00	0.00	7	5	0.40	0.45	0.43	22
5	0.14	0.31	0.20	13	5	0.17	0.42	0.24	12	6	0.40	0.39	0.39	57
6	0.12	0.42	0.19	12	6	0.17	0.39	0.24	23	7	0.52	0.38	0.44	64
7	0.14	0.23	0.17	35	7	0.07	0.19	0.10	31	8	0.42	0.27	0.33	81
8	0.13	0.19	0.16	36	8	0.01	0.07	0.02	14	9	0.39	0.30	0.34	76
9	0.10	0.18	0.13	49	9	0.03	0.09	0.05	35	10	0.20	0.20	0.20	50
10	0.07	0.04	0.05	55	10	0.06	0.04	0.05	47	11	0.26	0.73	0.38	37
11	0.06	0.09	0.07	32	11	0.09	0.04	0.06	47	12	0.00	0.00	0.00	14
12	0.00	0.00	0.00	38	12	0.00	0.04	0.00	36	14	0.00	0.00	0.00	2
13	0.00	0.00	0.00	28	13	0.00	0.00	0.00	43	15	0.00	0.00	0.00	1
14	0.00	0.00	0.00	28						17	0.00	0.00	0.00	2
15	0.00	0.00	0.00	23	14	0.00	0.00	0.00	20	24	0.00	0.00	0.00	0
16	0.00	0.00	0.00	16	15	0.00	0.00	0.00	28	27	0.00	0.00	0.00	0
17	0.00	0.00	0.00	6	16	0.00	0.00	0.00	13					
18	0.00	0.00	0.00	7	17	0.33	0.05	0.09	20	accuracy			0.34	418
19	0.00	0.00	0.00	8	18	0.00	0.00	0.00	11	macro avg	0.21	0.24	0.21	418
20	0.04	0.10	0.05	10	19	0.00	0.00	0.00	9	weighted avg	0.36	0.34	0.34	418
21	0.00	0.00	0.00	3	20	0.00	0.00	0.00	6					
22	0.00	0.00	0.00	4	21	0.00	0.00	0.00	6					
23	0.00	0.00	0.00	2	22	0.00	0.00	0.00	2					
24	0.00	0.00	0.00	0	23	0.00	0.00	0.00	3					
26	0.00	0.00	0.00	1	29	0.00	0.00	0.00	1					
27	0.00	0.00	0.00	0										
accuracy			0.11	418	accuracy			0.08	418					
macro avg	0.05	0.11	0.07	418	macro avg	0.05	0.10	0.05	418					
weighted avg	0.06	0.11	0.08	418	weighted avg	0.06	0.08	0.05	418					

Fold 4 :					Fold 5 :				
	precision	recall	f1-score	support		cision	recall	f1-score	support
3	1.00	1.00	1.00	1	3	0.00	0.00	0.00	0
4	0.50	1.00	0.67	1	4	0.20	0.33	0.25	3
5	0.44	0.44	0.44	9	5	0.20	0.57	0.30	7
6	0.14	0.28	0.19	18	6	0.39	0.35	0.37	20
7	0.14	0.26	0.13	42	7	0.38	0.39	0.39	38
					8	0.35	0.36	0.35	56
8	0.37	0.27	0.31	89	9	0.44	0.32	0.37	88
9	0.35	0.40	0.37	101	10	0.34	0.20	0.25	84
10	0.43	0.20	0.27	91	11	0.29	0.63	0.39	70 33
11	0.27	0.64	0.38	39	12	0.00		0.00	
12	0.00	0.00	0.00	18	13 14	0.00	0.00	0.00	12 4
13	0.00	0.00	0.00	6	15	0.00	0.00	0.00	2
14	0.00	0.00	0.00	2	16	0.00	0.00	0.00	1
15	0.00	0.00	0.00	1	17	0.00	0.00	0.00	0
17	0.00	0.00	0.00	0	20	0.00	0.00	0.00	0
17	0.00	0.00	0.00	U	24	0.00	0.00	0.00	0
			0 21	410	27	0.00	0.00	0.00	0
accuracy			0.31	418	27	0.00	0.00	0.00	Ü
macro avg	0.27	0.32	0.28	418	accuracy			0.33	418
weighted avg	0.32	0.31	0.30	418	macro avq	0.14	0.18	0.15	418
					weighted avg	0.31	0.33	0.30	418
Fold 7 :									
	precision	recall	f1-score	support	Fold 8 :	precision	recall	f1-score	support
	3 0.50	1.00	0.67	1	3		0.00		0
	4 0.78	0.78	0.78	9	4		0.50		4
	5 0.27	0.55	0.36	11	5		0.50		10 14
	6 0.31	0.31	0.31	29	7		0.30		22
	7 0.42	0.43	0.43	58			0.15		40
	8 0.51	0.25	0.34	91	9		0.27		60
	9 0.34	0.34	0.34	93	10		0.17		54
1		0.29	0.31	66	11 12		0.41		75 39
1		0.63	0.36	38	13		0.00		29
1:		0.00	0.00	11	14		0.00		20
1		0.00	0.00	9	15		0.00		17
1.		0.00	0.00	1	16		0.00		12
1		0.00	0.00	1	17 18		0.14		7 7
2		0.00	0.00	0	19		0.00		2
2		0.00	0.00	0	20		0.00		2
2	, 0.00	0.00	0.00	U	21		0.00		1
200:			0.35	410	24		0.00		2
accurac		0 21	0.35 0.26	418	27	0.00	0.00	0.00	0
macro av	-	0.31		418	accuracy	,		0.20	417
weighted av	g 0.37	0.35	0.34	418	macro avo		0.14		417
					weighted avo		0.20		417

Fold 6 :				
	precision	recall	f1-score	support
3	0.20	1.00	0.33	2
4	0.00	0.00	0.00	3
5	0.19	0.38	0.25	13
6	0.12	0.21	0.15	24
7	0.14	0.36	0.21	28
8	0.11	0.27	0.15	30
9	0.06	0.12	0.08	42
10	0.06	0.07	0.07	43
11	0.09	0.11	0.10	35
12	0.00	0.00	0.00	37
13	0.00	0.00	0.00	39
14	0.00	0.00	0.00	34
15	0.00	0.00	0.00	20
16	0.17	0.07	0.10	15
17	0.00	0.00	0.00	19
18	0.00	0.00	0.00	12
19	0.00	0.00	0.00	7
20	0.00	0.00	0.00	5
21	0.00	0.00	0.00	3
23	0.00	0.00	0.00	4
25	0.00	0.00	0.00	1
27	0.00	0.00	0.00	2
accuracy			0.10	418
macro avg	0.05	0.12	0.07	418
weighted avg	0.06	0.10	0.07	418

Average Accuracy score: 0.23846224455842027

Average Precision score: 0.21833174419731205

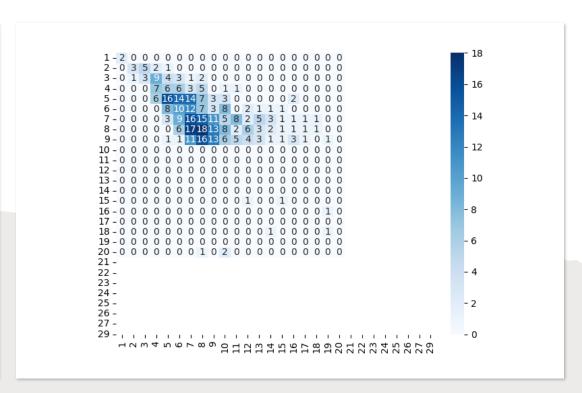
Average Recall score: 0.23846224455842027

Average f1_score score: 0.2148453197337902

Fold 10 :					
		precision	recall	f1-score	support
	3	0.00	0.00	0.00	1
	4	0.12	0.14	0.13	7
	5	0.15	0.50	0.23	6
	6	0.41	0.39	0.40	33
	7	0.25	0.43	0.32	30
	8	0.31	0.28	0.30	60
	9	0.23	0.34	0.27	67
	10	0.20	0.15	0.17	72
	11	0.30	0.41	0.35	61
	12	0.00	0.00	0.00	25
	13	0.00	0.00	0.00	19
	14	0.00	0.00	0.00	11
	15	0.00	0.00	0.00	8
	16	0.00	0.00	0.00	8
	17	0.00	0.00	0.00	2
	18	0.00	0.00	0.00	2
	19	0.00	0.00	0.00	2
	20	0.00	0.00	0.00	2
	21	0.00	0.00	0.00	1
	24	0.00	0.00	0.00	0
	27	0.00	0.00	0.00	0
accur	cacy			0.25	417
macro	avg	0.09	0.13	0.10	417
weighted	avg	0.21	0.25	0.23	417

MODEL EVALUATION

		precision	recall	f1-score	support	
	3	1.00	1.00	1.00	2	
	4	0.27	0.75	0.40	4	
	5	0.13	0.38	0.19	8	
	6	0.24	0.29	0.26	24	
	7	0.25	0.41	0.31	39	
	8	0.19	0.20	0.20	49	
	9	0.20	0.22	0.21	74	
	10	0.23	0.25	0.24	71	
	11	0.19	0.30	0.24	43	
	12	0.00	0.00	0.00	33	
	13	0.00	0.00	0.00	16	
	14	0.00	0.00	0.00	15	
	15	0.00	0.00	0.00	12	
	16	0.00	0.00	0.00	8	
	17	0.50	0.20	0.29	5	
	18	0.00	0.00	0.00	7	
	19	0.00	0.00	0.00	3	
	20	0.00	0.00	0.00	2	
	21	0.00	0.00	0.00	3	
	27	0.00	0.00	0.00	0	
accura	су			0.21	418	
macro a	ıvg	0.16	0.20	0.17	418	
weighted a	ıvg	0.17	0.21	0.18	418	



• Test score 0.21291866028708134