

## LAMPIRAN

Lampiran 1. Dataset Uang Kertas No Crop

<b>Id</b>	<b>Red</b>	<b>Green</b>	<b>Blue</b>	<b>Jenis</b>
1	182	167	150	1000
2	175	163	149	1000
3	178	162	145	1000
4	176	162	146	1000
5	178	163	145	1000
6	174	160	145	1000
7	173	159	144	1000
8	172	158	144	1000
9	177	159	142	1000
10	179	162	144	1000
11	176	155	137	1000
12	173	152	133	1000
13	171	151	133	1000
14	166	143	126	1000
15	154	130	111	1000
16	173	160	154	2000
17	172	161	157	2000
18	171	158	153	2000
19	175	164	156	2000
20	176	163	157	2000
21	176	163	152	2000
22	174	159	150	2000
23	173	158	151	2000
24	171	156	149	2000
25	170	153	142	2000
26	172	154	144	2000
27	168	150	140	2000
28	172	154	143	2000
29	171	152	140	2000
30	165	143	131	2000
31	199	172	141	5000
32	193	167	138	5000
33	192	167	138	5000
34	191	166	139	5000
35	202	176	146	5000
36	196	170	143	5000
37	194	167	138	5000

38	196	167	137	5000
39	193	166	137	5000
40	200	170	141	5000
41	193	164	135	5000
42	191	160	131	5000
43	183	158	131	5000
44	195	166	136	5000
45	180	146	117	5000
46	118	114	117	10000
47	121	116	121	10000
48	120	115	120	10000
49	120	114	118	10000
50	121	115	115	10000
51	123	117	115	10000
52	120	114	112	10000
53	122	116	115	10000
54	119	114	112	10000
55	122	113	105	10000
56	122	113	107	10000
57	122	113	104	10000
58	120	110	100	10000
59	123	114	106	10000
60	118	107	98	10000
61	100	123	105	20000
62	111	135	115	20000
63	111	133	114	20000
64	104	126	106	20000
65	107	129	109	20000
66	97	117	96	20000
67	100	120	98	20000
68	107	126	104	20000
69	102	121	101	20000
70	103	121	100	20000
71	110	132	110	20000
72	108	129	108	20000
73	101	122	98	20000
74	102	120	97	20000
75	99	115	91	20000
76	103	119	125	50000
77	105	124	131	50000
78	101	123	127	50000
79	103	119	124	50000

80	103	121	125	50000
81	108	124	128	50000
82	104	121	124	50000
83	104	120	120	50000
84	106	121	122	50000
85	108	122	120	50000
86	107	120	117	50000
87	101	118	115	50000
88	105	117	111	50000
89	104	115	107	50000
90	102	119	115	50000
91	154	114	110	100000
92	154	111	108	100000
93	156	116	114	100000
94	150	112	108	100000
95	149	114	109	100000
96	152	113	105	100000
97	148	111	106	100000
98	151	111	106	100000
99	152	110	105	100000
100	147	109	104	100000
101	150	106	94	100000
102	154	106	93	100000
103	155	109	97	100000
104	151	107	96	100000
105	149	105	94	100000

Lampiran 2. Dataset Uang Kertas Crop 75%

<b>Id</b>	<b>Red</b>	<b>Green</b>	<b>Blue</b>	<b>Jenis</b>
1	172	158	145	1000
2	166	153	143	1000
3	169	153	139	1000
4	167	153	140	1000
5	169	154	140	1000
6	165	151	139	1000
7	164	150	138	1000
8	164	149	138	1000
9	169	151	137	1000
10	171	154	140	1000
11	168	148	132	1000
12	166	145	128	1000
13	165	145	129	1000





14	161	138	123	1000
15	150	126	109	1000
16	173	158	151	2000
17	172	159	153	2000
18	170	156	149	2000
19	174	160	151	2000
20	175	162	154	2000
21	175	161	149	2000
22	173	157	147	2000
23	170	154	145	2000
24	170	154	145	2000
25	168	150	138	2000
26	171	152	141	2000
27	166	148	136	2000
28	172	153	141	2000
29	170	150	136	2000
30	164	141	128	2000
31	193	163	133	5000
32	185	157	129	5000
33	185	157	130	5000
34	183	155	130	5000
35	196	169	139	5000
36	190	163	136	5000
37	188	159	131	5000
38	190	160	131	5000
39	187	159	129	5000
40	196	164	136	5000
41	188	155	127	5000
42	186	153	125	5000
43	177	150	125	5000
44	191	160	130	5000
45	175	139	110	5000
46	112	106	109	10000
47	115	108	113	10000
48	114	107	113	10000
49	115	107	112	10000
50	117	108	109	10000
51	118	111	111	10000
52	116	108	108	10000
53	117	110	110	10000
54	112	106	106	10000
55	116	107	100	10000



56	116	105	103	10000
57	116	106	98	10000
58	116	106	99	10000
59	118	106	100	10000
60	116	103	97	10000
61	94	120	103	20000
62	103	131	112	20000
63	102	129	110	20000
64	95	120	100	20000
65	99	125	106	20000
66	89	113	92	20000
67	90	114	93	20000
68	97	121	100	20000
69	93	117	97	20000
70	96	117	96	20000
71	103	129	107	20000
72	100	124	104	20000
73	88	114	93	20000
74	92	116	94	20000
75	89	109	87	20000
76	91	109	117	50000
77	91	112	123	50000
78	84	111	118	50000
79	90	109	117	50000
80	88	109	118	50000
81	96	114	121	50000
82	90	110	116	50000
83	91	109	112	50000
84	96	112	115	50000
85	93	110	113	50000
86	93	108	109	50000
87	85	108	109	50000
88	94	109	106	50000
89	89	103	100	50000
90	87	109	109	50000
91	150	100	96	100000
92	150	99	96	100000
93	152	104	102	100000
94	145	99	95	100000
95	144	103	97	100000
96	147	102	94	100000
97	144	98	94	100000

98	148	100	95	100000
99	147	98	93	100000
100	142	97	92	100000
101	148	96	85	100000
102	152	95	83	100000
103	153	98	87	100000
104	150	97	88	100000
105	148	95	85	100000

**Lampiran 3.** Dataset Uang Kertas Crop Crop 50%

<b>Id</b>	<b>Red</b>	<b>Green</b>	<b>Blue</b>	<b>Jenis</b>
1	159	148	136	1000
2	151	141	133	1000
3	156	143	130	1000
4	153	142	131	1000
5	155	142	130	1000
6	151	140	128	1000
7	149	140	129	1000
8	151	139	128	1000
9	157	142	129	1000
10	159	145	131	1000
11	157	139	125	1000
12	155	137	121	1000
13	153	135	121	1000
14	150	130	116	1000
15	141	119	104	1000
16	170	155	147	2000
17	169	156	148	2000
18	167	153	145	2000
19	169	154	144	2000
20	170	156	147	2000
21	171	157	144	2000
22	170	153	143	2000
23	167	151	142	2000
24	167	151	141	2000
25	163	145	132	2000
26	168	148	136	2000
27	164	145	133	2000
28	168	149	136	2000
29	166	145	131	2000
30	162	139	126	2000



31	186	158	126	5000
32	176	149	120	5000
33	177	149	121	5000
34	177	148	121	5000
35	189	162	132	5000
36	184	158	130	5000
37	181	153	125	5000
38	184	155	125	5000
39	181	154	123	5000
40	190	158	129	5000
41	182	149	121	5000
42	180	148	119	5000
43	172	146	119	5000
44	185	155	125	5000
45	169	135	106	5000
46	106	98	102	10000
47	106	97	104	10000
48	106	97	104	10000
49	107	97	102	10000
50	107	97	100	10000
51	110	102	103	10000
52	109	100	102	10000
53	112	103	105	10000
54	105	98	100	10000
55	111	100	96	10000
56	110	98	97	10000
57	110	98	93	10000
58	111	100	96	10000
59	112	100	96	10000
60	108	96	92	10000
61	87	110	95	20000
62	99	121	105	20000
63	100	122	105	20000
64	90	110	94	20000
65	96	117	100	20000
66	84	105	86	20000
67	86	106	89	20000
68	93	111	93	20000
69	90	109	92	20000
70	91	109	90	20000
71	99	120	100	20000
72	99	119	103	20000

73	89	112	95	20000
74	92	113	96	20000
75	90	106	87	20000
76	83	102	115	50000
77	83	105	121	50000
78	82	107	118	50000
79	80	102	116	50000
80	80	102	115	50000
81	88	107	118	50000
82	80	101	113	50000
83	83	103	111	50000
84	86	103	112	50000
85	83	102	110	50000
86	86	102	108	50000
87	81	101	105	50000
88	87	104	106	50000
89	79	96	97	50000
90	86	107	110	50000
91	153	107	101	100000
92	150	106	99	100000
93	150	111	106	100000
94	145	104	98	100000
95	145	112	104	100000
96	149	109	99	100000
97	146	107	100	100000
98	150	108	101	100000
99	149	105	98	100000
100	143	103	95	100000
101	148	99	85	100000
102	152	97	82	100000
103	154	102	88	100000
104	151	99	86	100000
105	149	98	85	100000

**Lampiran 4.** Dataset Uang Kertas Crop 25%

<b>Id</b>	<b>Red</b>	<b>Green</b>	<b>Blue</b>	<b>Jenis</b>
1	139	143	133	1000
2	131	137	128	1000
3	136	139	128	1000
4	136	142	131	1000
5	133	138	127	1000
6	131	138	126	1000



7	131	138	127	1000
8	131	134	123	1000
9	136	136	125	1000
10	135	138	126	1000
11	135	133	121	1000
12	134	132	118	1000
13	136	132	119	1000
14	134	126	114	1000
15	126	116	103	1000
16	157	141	135	2000
17	155	140	136	2000
18	154	139	133	2000
19	153	138	131	2000
20	156	140	134	2000
21	156	141	131	2000
22	157	139	132	2000
23	153	136	129	2000
24	156	140	133	2000
25	149	129	118	2000
26	147	128	119	2000
27	144	125	115	2000
28	153	134	124	2000
29	151	130	118	2000
30	148	127	116	2000
31	169	159	119	5000
32	163	153	113	5000
33	167	157	117	5000
34	163	151	115	5000
35	174	165	125	5000
36	169	158	123	5000
37	163	154	116	5000
38	171	158	119	5000
39	164	153	114	5000
40	176	154	119	5000
41	170	152	114	5000
42	165	149	112	5000
43	160	150	114	5000
44	167	155	115	5000
45	156	137	100	5000
46	102	95	102	10000
47	106	97	106	10000
48	104	96	105	10000

49	102	93	99	10000
50	98	88	94	10000
51	105	97	103	10000
52	101	93	98	10000
53	108	99	103	10000
54	97	90	96	10000
55	106	96	95	10000
56	105	94	97	10000
57	104	93	92	10000
58	101	92	91	10000
59	105	95	96	10000
60	103	92	91	10000
61	89	101	85	20000
62	104	115	93	20000
63	99	115	94	20000
64	90	103	84	20000
65	97	110	91	20000
66	85	100	81	20000
67	88	102	83	20000
68	97	106	84	20000
69	91	104	82	20000
70	90	101	79	20000
71	97	112	88	20000
72	96	110	90	20000
73	86	104	86	20000
74	95	110	90	20000
75	90	102	83	20000
76	82	103	118	50000
77	80	104	122	50000
78	83	108	120	50000
79	77	102	118	50000
80	78	102	116	50000
81	87	108	120	50000
82	78	101	113	50000
83	83	105	115	50000
84	83	103	113	50000
85	84	105	114	50000
86	82	103	111	50000
87	81	101	108	50000
88	86	107	111	50000
89	79	97	99	50000
90	87	109	113	50000

91	140	102	98	100000
92	138	100	93	100000
93	137	101	98	100000
94	130	93	89	100000
95	128	98	92	100000
96	135	97	90	100000
97	129	95	90	100000
98	133	94	88	100000
99	133	94	88	100000
100	131	92	87	100000
101	126	93	77	100000
102	130	93	75	100000
103	135	98	82	100000
104	133	95	80	100000
105	129	95	78	100000

**Lampiran 5.** Pengujian Dataset No Crop

Dataset	Nilai k	Akurasi Rata-rata(%) Pengujian			Akurasi Rata-rata(%)
		Uji 1	Uji 2	Uji 3	
No Crop	1	95.2381	100	95.2381	96.8254
	2	100	95.2381	100	<b>98.4127</b>
	3	100	90.4762	95.2381	95.2381
	4	100	95.2381	90.4762	95.2381
	5	85.7143	95.2381	85.7143	88.8889
	6	71.4286	85.7143	85.7143	80.9524
	7	66.6667	66.6667	66.6667	66.6667
	8	61.9048	57.1429	61.9048	60.3175
	9	57.1429	57.1429	57.1429	57.1429
	10	57.1429	57.1429	57.1429	57.1429
	11	57.1429	52.381	57.1429	55.5556
	12	57.1429	57.1429	57.1429	57.1429
	13	57.1429	57.1429	57.1429	57.1429
	14	66.6667	57.1429	57.1429	60.3175
	15	66.6667	57.1429	57.1429	60.3175
	16	66.6667	57.1429	57.1429	60.3175
	17	66.6667	57.1429	71.4286	65.0794
	18	76.1905	57.1429	66.6667	66.6667
	19	76.1905	71.4286	71.4286	73.0159
	20	76.1905	66.6667	71.4286	71.4286
	21	66.6667	71.4286	76.1905	71.4286





22	61.9048	61.9048	76.1905	66.6667
23	61.9048	61.9048	71.4286	65.0794
24	61.9048	61.9048	71.4286	65.0794
25	61.9048	57.1429	71.4286	63.4921
26	61.9048	61.9048	61.9048	61.9048
27	61.9048	61.9048	61.9048	61.9048
28	61.9048	61.9048	61.9048	61.9048
29	61.9048	57.1429	66.6667	61.9048
30	61.9048	52.381	57.1429	57.1429
Akurasi rata-rata (%)	69.52384	66.6667	69.8413	68.67728

Lampiran 6. Pengujian Dataset Crop 75%

Dataset	Nilai k	Akurasi Rata-rata(%) Pengujian			Akurasi Rata-rata(%)
		Uji 1	Uji 2	Uji 3	
Crop 75%	1	95.2381	95.2381	90.4762	93.6508
	2	90.4762	95.2381	90.4762	92.0635
	3	85.7143	85.7143	90.4762	87.3016
	4	85.7143	85.7143	85.7143	85.7143
	5	71.4286	85.7143	85.7143	80.9524
	6	71.4286	71.4286	85.7143	76.1905
	7	71.4286	57.1429	71.4286	66.6667
	8	71.4286	57.1429	71.4286	66.6667
	9	57.1429	57.1429	57.1429	57.1429
	10	57.1429	57.1429	57.1429	57.1429
	11	57.1429	57.1429	57.1429	57.1429
	12	57.1429	57.1429	57.1429	57.1429
	13	57.1429	57.1429	57.1429	57.1429
	14	57.1429	57.1429	57.1429	57.1429
	15	57.1429	57.1429	57.1429	57.1429
	16	57.1429	57.1429	57.1429	57.1429
	17	71.4286	76.1905	57.1429	68.254
	18	71.4286	71.4286	80.9524	74.6032
	19	71.4286	71.4286	76.1905	73.0159
	20	71.4286	66.6667	71.4286	69.8413
	21	71.4286	71.4286	76.1905	73.0159
	22	71.4286	71.4286	71.4286	71.4286
	23	71.4286	71.4286	76.1905	73.0159
	24	66.6667	71.4286	71.4286	69.8413



	25	66.6667	71.4286	61.9048	66.6667
	26	66.6667	66.6667	66.6667	66.6667
	27	71.4286	66.6667	66.6667	68.254
	28	71.4286	66.6667	71.4286	69.8413
	29	76.1905	71.4286	66.6667	71.4286
	30	76.1905	71.4286	76.1905	74.6032
Akurasi rata-rata (%)		69.8413	69.20638	70.63495	69.89421

**Lampiran 7. Pengujian Dataset Crop 50%**

Dataset	Nilai k	Akurasi Rata-rata(%) Pengujian			Akurasi Rata-rata(%)
		Uji 1	Uji 2	Uji 3	
Crop 50%	1	100	100	100	100
	2	100	100	100	100
	3	100	100	95.2381	98.4127
	4	100	100	100	100
	5	100	95.2381	100	98.4127
	6	100	95.2381	100	98.4127
	7	100	95.2381	95.2381	96.8254
	8	95.2381	100	90.4762	95.2381
	9	95.2381	95.2381	80.9524	90.4762
	10	85.7143	80.9524	80.9524	82.5397
	11	80.9524	80.9524	80.9524	80.9524
	12	85.7143	85.7143	80.9524	84.127
	13	95.2381	80.9524	85.7143	87.3016
	14	95.2381	80.9524	85.7143	87.3016
	15	95.2381	80.9524	90.4762	88.8889
	16	100	85.7143	85.7143	90.4762
	17	95.2381	90.4762	85.7143	90.4762
	18	95.2381	80.9524	85.7143	87.3016
	19	95.2381	85.7143	90.4762	90.4762
	20	95.2381	85.7143	90.4762	90.4762
	21	95.2381	90.4762	90.4762	92.0635
	22	95.2381	85.7143	85.7143	88.8889
	23	85.7143	85.7143	90.4762	87.3016
	24	85.7143	85.7143	90.4762	87.3016
	25	90.4762	85.7143	90.4762	88.8889
	26	85.7143	76.1905	95.2381	85.7143
	27	76.1905	76.1905	95.2381	82.5397

	28	85.7143	76.1905	95.2381	85.7143
	29	100	76.1905	95.2381	90.4762
	30	71.4286	66.6667	95.2381	77.7778
Akurasi rata-rata (%)		92.69842	86.82541	90.95239	90.15874

Lampiran 8. Pengujian Dataset Crop 25%

Dataset	Nilai k	Akurasi Rata-rata(%) Pengujian			Akurasi Rata-rata(%)
		Uji 1	Uji 2	Uji 3	
Crop 25%	1	100	100	100	100
	2	100	100	100	100
	3	100	100	100	100
	4	100	100	100	100
	5	100	95.2381	100	98.4127
	6	100	95.2381	100	98.4127
	7	100	95.2381	95.2381	96.8254
	8	100	85.7143	95.2381	93.6508
	9	100	90.4762	95.2381	95.2381
	10	95.2381	85.7143	95.2381	92.0635
	11	95.2381	80.9524	90.4762	88.8889
	12	95.2381	80.9524	90.4762	88.8889
	13	95.2381	80.9524	90.4762	88.8889
	14	95.2381	85.7143	90.4762	90.4762
	15	95.2381	85.7143	90.4762	90.4762
	16	95.2381	85.7143	90.4762	90.4762
	17	95.2381	90.4762	90.4762	92.0635
	18	80.9524	90.4762	95.2381	88.8889
	19	90.4762	90.4762	90.4762	90.4762
	20	85.7143	100	95.2381	93.6508
	21	95.2381	76.1905	95.2381	88.8889
	22	95.2381	85.7143	95.2381	92.0635
	23	100	61.9048	95.2381	85.7143
	24	95.2381	66.6667	100	87.3016
	25	95.2381	76.1905	95.2381	88.8889
	26	95.2381	76.1905	90.4762	87.3016
	27	95.2381	76.1905	76.1905	82.5397
	28	85.7143	76.1905	76.1905	79.3651
	29	76.1905	76.1905	76.1905	76.1905
	30	76.1905	76.1905	76.1905	76.1905





<b>Akurasi rata-rata (%)</b>	<b>94.28572</b>	<b>85.55557</b>	<b>92.38096</b>	<b>90.74075</b>
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**Lampiran 9.** Pengujian Pengaruh Data Testing Tetap dan Data Training Berbeda

Dataset	Jumlah Data Training	Nilai k	Akurasi Rata-rata(%) Pengujian			Akurasi Rata-rata(%)
			Uji 1	Uji 2	Uji 3	
<b>Crop 25%</b>	<b>84</b>	1	100	100	100	<b>100</b>
		2	100	100	100	<b>100</b>
		3	100	100	100	<b>100</b>
		4	100	100	100	<b>100</b>
		5	100	95.2381	100	98.4127
		6	100	95.2381	100	98.4127
		7	100	95.2381	95.2381	96.8254
		8	100	85.7143	95.2381	93.6508
		9	100	90.4762	95.2381	95.2381
		10	95.2381	85.7143	95.2381	92.0635
<b>Akurasi rata-rata (%)</b>			99.52381	94.76191	98.09524	97.46032
Dataset	Jumlah Data Training	Nilai k	Akurasi Rata-rata(%) Pengujian			Akurasi Rata-rata(%)
			Uji 1	Uji 2	Uji 3	
<b>Crop 25%</b>	<b>63</b>	1	100	100	100	<b>100</b>
		2	100	100	100	<b>100</b>
		3	100	100	100	<b>100</b>
		4	100	95.2381	100	<b>98.4127</b>
		5	100	85.7143	95.2381	<b>93.6508</b>
		6	90.4762	85.7143	100	<b>92.0635</b>
		7	85.7143	85.7143	90.4762	<b>87.3016</b>
		8	71.4286	80.9524	95.2381	<b>82.5397</b>
		9	71.4286	80.9524	80.9524	<b>77.7778</b>
		10	76.1905	95.2381	90.4762	<b>87.3016</b>
<b>Akurasi rata-rata (%)</b>			89.52382	90.95239	95.2381	91.90477
Dataset	Jumlah Data Training	Nilai k	Akurasi Rata-rata(%) Pengujian			Akurasi Rata-rata(%)
			Uji 1	Uji 2	Uji 3	
<b>Crop 25%</b>	<b>42</b>	1	100	100	100	<b>100</b>
		2	100	95.2381	100	<b>98.4127</b>
		3	100	95.2381	100	<b>98.4127</b>
		4	100	85.7143	95.2381	<b>93.6508</b>
		5	71.4286	85.7143	71.4286	<b>76.1905</b>

	6	76.1905	85.7143	85.7143	<b>82.5397</b>
	7	71.4286	95.2381	85.7143	<b>84.127</b>
	8	85.7143	95.2381	95.2381	<b>92.0635</b>
	9	90.4762	90.4762	95.2381	<b>92.0635</b>
	10	85.7143	100	95.2381	<b>93.6508</b>
<b>Akurasi rata-rata (%)</b>		88.09525	92.85715	92.38096	91.11112

**Lampiran 10.** Pengujian Pengaruh Nilai k Pada Dataset 25%

Dataset	Nilai k	Akurasi Rata-rata(%) Pengujian dari Data Training		
		Data Training 84	Data Trainig 63	Data Training 42
<b>Crop 25%</b>	1	100	100	100
	2	100	100	98.4127
	3	100	100	98.4127
	4	100	98.4127	93.6508
	5	98.4127	93.6508	76.1905
	6	98.4127	92.0635	82.5397
	7	96.8254	87.3016	84.127
	8	93.6508	82.5397	92.0635
	9	95.2381	77.7778	92.0635
	10	92.0635	87.3016	93.6508
<b>Akurasi rata-rata (%)</b>		97.46032	91.90477	91.11112