

## LAMPIRAN

**Lampiran 1 Dataset Indian Pima**

No	Pregnancies	Glucose	Blood Pressure	Skin Thickness	Insulin	BMI	Diabetes Pedigree Function	Age	Outcome
1	6	148	72	35	0	33.6	0.627	50	1
2	1	85	66	29	0	26.6	0.351	31	0
3	8	183	64	0	0	23.3	0.672	32	1
4	1	89	66	23	94	28.1	0.167	21	0
5	0	137	40	35	168	43.1	2.288	33	1
6	5	116	74	0	0	25.6	0.201	30	0
7	3	78	50	32	88	31	0.248	26	1
8	10	115	0	0	0	35.3	0.134	29	0
9	2	197	70	45	543	30.5	0.158	53	1
10	8	125	96	0	0	0	0.232	54	1
11	4	110	92	0	0	37.6	0.191	30	0
12	10	168	74	0	0	38	0.537	34	1
13	10	139	80	0	0	27.1	1.441	57	0
14	1	189	60	23	846	30.1	0.398	59	1
15	5	166	72	19	175	25.8	0.587	51	1
16	7	100	0	0	0	30	0.484	32	1
17	0	118	84	47	230	45.8	0.551	31	1
18	7	107	74	0	0	29.6	0.254	31	1
19	1	103	30	38	83	43.3	0.183	33	0
20	1	115	70	30	96	34.6	0.529	32	1
21	3	126	88	41	235	39.3	0.704	27	0
22	8	99	84	0	0	35.4	0.388	50	0
23	7	196	90	0	0	39.8	0.451	41	1
24	9	119	80	35	0	29	0.263	29	1
25	11	143	94	33	146	36.6	0.254	51	1
26	10	125	70	26	115	31.1	0.205	41	1
27	7	147	76	0	0	39.4	0.257	43	1
28	1	97	66	15	140	23.2	0.487	22	0
29	13	145	82	19	110	22.2	0.245	57	0
30	5	117	92	0	0	34.1	0.337	38	0
31	5	109	75	26	0	36	0.546	60	0
32	3	158	76	36	245	31.6	0.851	28	1
33	3	88	58	11	54	24.8	0.267	22	0
34	6	92	92	0	0	19.9	0.188	28	0
35	10	122	78	31	0	27.6	0.512	45	0
36	4	103	60	33	192	24	0.966	33	0
37	11	138	76	0	0	33.2	0.42	35	0
38	9	102	76	37	0	32.9	0.665	46	1
39	2	90	68	42	0	38.2	0.503	27	1
40	4	111	72	47	207	37.1	1.39	56	1
41	3	180	64	25	70	34	0.271	26	0
42	7	133	84	0	0	40.2	0.696	37	0
43	7	106	92	18	0	21.7	0.235	48	0
44	9	171	110	24	240	45.4	0.721	54	1
45	7	159	64	0	0	27.4	0.294	40	0
46	0	180	66	39	0	42	1.893	25	1
47	1	146	56	0	0	29.7	0.564	29	0
48	2	71	70	27	0	28	0.586	22	0
49	7	103	66	32	0	39.1	0.344	31	1
50	7	105	0	0	0	0	0.305	24	0
51	1	103	80	11	82	19.4	0.491	22	0
52	1	101	50	15	36	24.2	0.526	26	0
53	5	88	66	21	23	24.4	0.342	30	0
54	8	176	90	34	300	33.7	0.467	58	1
55	7	150	66	42	342	34.7	0.718	42	0
56	1	73	50	10	0	23	0.248	21	0
57	7	187	68	39	304	37.7	0.254	41	1
58	0	100	88	60	110	46.8	0.962	31	0
59	0	146	82	0	0	40.5	1.781	44	0
60	0	105	64	41	142	41.5	0.173	22	0

### Lampiran 1 Dataset Indian Pima (Lanjutan 1)

61	2	84	0	0	0	0	0.304	21	0
62	8	133	72	0	0	32.9	0.27	39	1
63	5	44	62	0	0	25	0.587	36	0
64	2	141	58	34	128	25.4	0.699	24	0
65	7	114	66	0	0	32.8	0.258	42	1
66	5	99	74	27	0	29	0.203	32	0
67	0	109	88	30	0	32.5	0.855	38	1
68	2	109	92	0	0	42.7	0.845	54	0
69	1	95	66	13	38	19.6	0.334	25	0
70	4	146	85	27	100	28.9	0.189	27	0
71	2	100	66	20	90	32.9	0.867	28	1
72	5	139	64	35	140	28.6	0.411	26	0
73	13	126	90	0	0	43.4	0.583	42	1
74	4	129	86	20	270	35.1	0.231	23	0
75	1	79	75	30	0	32	0.396	22	0
76	1	0	48	20	0	24.7	0.14	22	0
77	7	62	78	0	0	31.6	0.391	41	0
78	5	95	72	33	0	37.7	0.37	27	0
79	0	131	0	0	0	43.2	0.27	26	1
80	2	112	66	22	0	25	0.307	24	0
81	3	113	44	13	0	22.4	0.14	22	0
82	2	74	0	0	0	0	0.102	22	0
83	7	83	78	26	71	29.3	0.767	36	0
84	0	101	65	28	0	24.6	0.237	22	0
85	5	137	108	0	0	48.8	0.227	37	1
86	2	110	74	29	125	32.4	0.698	27	0
87	13	106	72	54	0	36.6	0.178	45	0
88	2	100	68	25	71	38.5	0.324	26	0
89	15	136	70	32	110	37.1	0.153	43	1
90	1	107	68	19	0	26.5	0.165	24	0
91	1	80	55	0	0	19.1	0.258	21	0
92	4	123	80	15	176	32	0.443	34	0
93	7	81	78	40	48	46.7	0.261	42	0
94	4	134	72	0	0	23.8	0.277	60	1
95	2	142	82	18	64	24.7	0.761	21	0
96	6	144	72	27	228	33.9	0.255	40	0
97	2	92	62	28	0	31.6	0.13	24	0
98	1	71	48	18	76	20.4	0.323	22	0
99	6	93	50	30	64	28.7	0.356	23	0
100	1	122	90	51	220	49.7	0.325	31	1
101	1	163	72	0	0	39	1.222	33	1
102	1	151	60	0	0	26.1	0.179	22	0
103	0	125	96	0	0	22.5	0.262	21	0
104	1	81	72	18	40	26.6	0.283	24	0
105	2	85	65	0	0	39.6	0.93	27	0
106	1	126	56	29	152	28.7	0.801	21	0
107	1	96	122	0	0	22.4	0.207	27	0
108	4	144	58	28	140	29.5	0.287	37	0
109	3	83	58	31	18	34.3	0.336	25	0
110	0	95	85	25	36	37.4	0.247	24	1
111	3	171	72	33	135	33.3	0.199	24	1
112	8	155	62	26	495	34	0.543	46	1
113	1	89	76	34	37	31.2	0.192	23	0
114	4	76	62	0	0	34	0.391	25	0
115	7	160	54	32	175	30.5	0.588	39	1
116	4	146	92	0	0	31.2	0.539	61	1
117	5	124	74	0	0	34	0.22	38	1
118	5	78	48	0	0	33.7	0.654	25	0
119	4	97	60	23	0	28.2	0.443	22	0
120	4	99	76	15	51	23.2	0.223	21	0
121	0	162	76	56	100	53.2	0.759	25	1

**Lampiran 1 Dataset Indian Pima (Lanjutan 2)**

122	6	111	64	39	0	34.2	0.26	24	0
123	2	107	74	30	100	33.6	0.404	23	0
124	5	132	80	0	0	26.8	0.186	69	0
125	0	113	76	0	0	33.3	0.278	23	1
126	1	88	30	42	99	55	0.496	26	1
127	3	120	70	30	135	42.9	0.452	30	0
128	1	118	58	36	94	33.3	0.261	23	0
129	1	117	88	24	145	34.5	0.403	40	1
130	0	105	84	0	0	27.9	0.741	62	1
131	4	173	70	14	168	29.7	0.361	33	1
132	9	122	56	0	0	33.3	1.114	33	1
133	3	170	64	37	225	34.5	0.356	30	1
134	8	84	74	31	0	38.3	0.457	39	0
135	2	96	68	13	49	21.1	0.647	26	0
136	2	125	60	20	140	33.8	0.088	31	0
137	0	100	70	26	50	30.8	0.597	21	0
138	0	93	60	25	92	28.7	0.532	22	0
139	0	129	80	0	0	31.2	0.703	29	0
140	5	105	72	29	325	36.9	0.159	28	0
141	3	128	78	0	0	21.1	0.268	55	0
142	5	106	82	30	0	39.5	0.286	38	0
143	2	108	52	26	63	32.5	0.318	22	0
144	10	108	66	0	0	32.4	0.272	42	1
145	4	154	62	31	284	32.8	0.237	23	0
146	0	102	75	23	0	0	0.572	21	0
147	9	57	80	37	0	32.8	0.096	41	0
148	2	106	64	35	119	30.5	1.4	34	0
149	5	147	78	0	0	33.7	0.218	65	0
150	2	90	70	17	0	27.3	0.085	22	0
151	1	136	74	50	204	37.4	0.399	24	0
152	4	114	65	0	0	21.9	0.432	37	0
153	9	156	86	28	155	34.3	1.189	42	1
154	1	153	82	42	485	40.6	0.687	23	0
155	8	188	78	0	0	47.9	0.137	43	1
156	7	152	88	44	0	50	0.337	36	1
157	2	99	52	15	94	24.6	0.637	21	0
158	1	109	56	21	135	25.2	0.833	23	0
159	2	88	74	19	53	29	0.229	22	0
160	17	163	72	41	114	40.9	0.817	47	1
161	4	151	90	38	0	29.7	0.294	36	0
162	7	102	74	40	105	37.2	0.204	45	0
163	0	114	80	34	285	44.2	0.167	27	0
164	2	100	64	23	0	29.7	0.368	21	0
165	0	131	88	0	0	31.6	0.743	32	1
166	6	104	74	18	156	29.9	0.722	41	1
167	3	148	66	25	0	32.5	0.256	22	0
168	4	120	68	0	0	29.6	0.709	34	0
169	4	110	66	0	0	31.9	0.471	29	0
170	3	111	90	12	78	28.4	0.495	29	0
171	6	102	82	0	0	30.8	0.18	36	1
172	6	134	70	23	130	35.4	0.542	29	1
173	2	87	0	23	0	28.9	0.773	25	0
174	1	79	60	42	48	43.5	0.678	23	0
175	2	75	64	24	55	29.7	0.37	33	0
176	8	179	72	42	130	32.7	0.719	36	1
177	6	85	78	0	0	31.2	0.382	42	0
178	0	129	110	46	130	67.1	0.319	26	1
179	5	143	78	0	0	45	0.19	47	0
180	5	130	82	0	0	39.1	0.956	37	1
181	6	87	80	0	0	23.2	0.084	32	0
182	0	119	64	18	92	34.9	0.725	23	0

### Lampiran 1 Dataset Indian Pima (Lanjutan 3)

183	1	0	74	20	23	27.7	0.299	21	0
184	5	73	60	0	0	26.8	0.268	27	0
185	4	141	74	0	0	27.6	0.244	40	0
186	7	194	68	28	0	35.9	0.745	41	1
187	8	181	68	36	495	30.1	0.615	60	1
188	1	128	98	41	58	32	1.321	33	1
189	8	109	76	39	114	27.9	0.64	31	1
190	5	139	80	35	160	31.6	0.361	25	1
191	3	111	62	0	0	22.6	0.142	21	0
192	9	123	70	44	94	33.1	0.374	40	0
193	7	159	66	0	0	30.4	0.383	36	1
194	11	135	0	0	0	52.3	0.578	40	1
195	8	85	55	20	0	24.4	0.136	42	0
196	5	158	84	41	210	39.4	0.395	29	1
197	1	105	58	0	0	24.3	0.187	21	0
198	3	107	62	13	48	27.9	0.678	23	1
199	4	109	64	44	99	34.8	0.905	26	1
200	4	148	60	27	318	30.9	0.15	29	1
201	0	113	80	16	0	31	0.874	21	0
202	1	138	82	0	0	40.1	0.236	28	0
203	0	108	68	20	0	27.3	0.787	32	0
204	2	99	70	16	44	20.4	0.235	27	0
205	6	103	72	32	190	37.7	0.324	55	0
206	5	111	72	28	0	23.9	0.407	27	0
207	8	196	76	29	280	37.5	0.605	57	1
208	5	162	104	0	0	37.7	0.151	52	1
209	1	96	64	27	87	33.2	0.289	21	0
210	7	184	84	33	0	35.5	0.355	41	1
211	2	81	60	22	0	27.7	0.29	25	0
212	0	147	85	54	0	42.8	0.375	24	0
213	7	179	95	31	0	34.2	0.164	60	0
214	0	140	65	26	130	42.6	0.431	24	1
215	9	112	82	32	175	34.2	0.26	36	1
216	12	151	70	40	271	41.8	0.742	38	1
217	5	109	62	41	129	35.8	0.514	25	1
218	6	125	68	30	120	30	0.464	32	0
219	5	85	74	22	0	29	1.224	32	1
220	5	112	66	0	0	37.8	0.261	41	1
221	0	177	60	29	478	34.6	1.072	21	1
222	2	158	90	0	0	31.6	0.805	66	1
223	7	119	0	0	0	25.2	0.209	37	0
224	7	142	60	33	190	28.8	0.687	61	0
225	1	100	66	15	56	23.6	0.666	26	0
226	1	87	78	27	32	34.6	0.101	22	0
227	0	101	76	0	0	31.7	0.198	26	0
228	3	162	52	38	0	37.2	0.652	24	1
229	4	197	70	39	744	36.7	2.329	31	0
230	0	117	80	31	53	45.2	0.089	24	0
231	4	142	86	0	0	44	0.645	22	1
232	6	134	80	37	370	46.2	0.238	46	1
233	1	79	80	25	37	25.4	0.583	22	0
234	4	122	68	0	0	35	0.394	29	0
235	3	74	68	28	45	29.7	0.293	23	0
236	4	171	72	0	0	43.6	0.479	26	1
237	7	181	84	21	192	35.9	0.586	51	1
238	0	179	90	27	0	44.1	0.686	23	1
239	9	164	84	21	0	30.8	0.831	32	1
240	0	104	76	0	0	18.4	0.582	27	0
241	1	91	64	24	0	29.2	0.192	21	0
242	4	91	70	32	88	33.1	0.446	22	0
243	3	139	54	0	0	25.6	0.402	22	1

**Lampiran 1 Dataset Indian Pima (Lanjutan 4)**

244	6	119	50	22	176	27.1	1.318	33	1
245	2	146	76	35	194	38.2	0.329	29	0
246	9	184	85	15	0	30	1.213	49	1
247	10	122	68	0	0	31.2	0.258	41	0
248	0	165	90	33	680	52.3	0.427	23	0
249	9	124	70	33	402	35.4	0.282	34	0
250	1	111	86	19	0	30.1	0.143	23	0
251	9	106	52	0	0	31.2	0.38	42	0
252	2	129	84	0	0	28	0.284	27	0
253	2	90	80	14	55	24.4	0.249	24	0
254	0	86	68	32	0	35.8	0.238	25	0
255	12	92	62	7	258	27.6	0.926	44	1
256	1	113	64	35	0	33.6	0.543	21	1
257	3	111	56	39	0	30.1	0.557	30	0
258	2	114	68	22	0	28.7	0.092	25	0
259	1	193	50	16	375	21.9	0.655	24	0
260	11	155	76	28	150	33.3	1.353	51	1
261	3	191	68	15	130	30.9	0.299	34	0
262	3	141	0	0	0	30	0.761	27	1
263	4	95	70	32	0	32.1	0.612	24	0
264	3	142	80	15	0	32.4	0.2	63	0
265	4	123	62	0	0	32	0.226	35	1
266	5	96	74	18	67	33.6	0.997	43	0
267	0	138	0	0	0	36.3	0.933	25	1
268	2	128	64	42	0	40	1.101	24	0
269	0	102	52	0	0	25.1	0.078	21	0
270	2	146	0	0	0	27.5	0.24	28	1
271	10	101	86	37	0	45.6	1.136	38	1
272	2	108	62	32	56	25.2	0.128	21	0
273	3	122	78	0	0	23	0.254	40	0
274	1	71	78	50	45	33.2	0.422	21	0
275	13	106	70	0	0	34.2	0.251	52	0
276	2	100	70	52	57	40.5	0.677	25	0
277	7	106	60	24	0	26.5	0.296	29	1
278	0	104	64	23	116	27.8	0.454	23	0
279	5	114	74	0	0	24.9	0.744	57	0
280	2	108	62	10	278	25.3	0.881	22	0
281	0	146	70	0	0	37.9	0.834	28	1
282	10	129	76	28	122	35.9	0.28	39	0
283	7	133	88	15	185	32.4	0.262	37	0
284	7	161	86	0	0	30.4	0.165	47	1
285	2	108	80	0	0	27	0.259	52	1
286	7	136	74	26	135	26	0.647	51	0
287	5	155	84	44	545	38.7	0.619	34	0
288	1	119	86	39	220	45.6	0.808	29	1
289	4	96	56	17	49	20.8	0.34	26	0
290	5	108	72	43	75	36.1	0.263	33	0
291	0	78	88	29	40	36.9	0.434	21	0
292	0	107	62	30	74	36.6	0.757	25	1
293	2	128	78	37	182	43.3	1.224	31	1
294	1	128	48	45	194	40.5	0.613	24	1
295	0	161	50	0	0	21.9	0.254	65	0
296	6	151	62	31	120	35.5	0.692	28	0
297	2	146	70	38	360	28	0.337	29	1
298	0	126	84	29	215	30.7	0.52	24	0
299	14	100	78	25	184	36.6	0.412	46	1
300	8	112	72	0	0	23.6	0.84	58	0
301	0	167	0	0	0	32.3	0.839	30	1
302	2	144	58	33	135	31.6	0.422	25	1
303	5	77	82	41	42	35.8	0.156	35	0
304	5	115	98	0	0	52.9	0.209	28	1

**Lampiran 1 Dataset Indian Pima (Lanjutan 5)**

305	3	150	76	0	0	21	0.207	37	0
306	2	120	76	37	105	39.7	0.215	29	0
307	10	161	68	23	132	25.5	0.326	47	1
308	0	137	68	14	148	24.8	0.143	21	0
309	0	128	68	19	180	30.5	1.391	25	1
310	2	124	68	28	205	32.9	0.875	30	1
311	6	80	66	30	0	26.2	0.313	41	0
312	0	106	70	37	148	39.4	0.605	22	0
313	2	155	74	17	96	26.6	0.433	27	1
314	3	113	50	10	85	29.5	0.626	25	0
315	7	109	80	31	0	35.9	1.127	43	1
316	2	112	68	22	94	34.1	0.315	26	0
317	3	99	80	11	64	19.3	0.284	30	0
318	3	182	74	0	0	30.5	0.345	29	1
319	3	115	66	39	140	38.1	0.15	28	0
320	6	194	78	0	0	21.5	0.129	59	1
321	4	129	60	12	231	27.5	0.527	31	0
322	3	112	74	30	0	31.6	0.197	25	1
323	0	124	70	20	0	27.4	0.254	36	1
324	13	152	90	33	29	26.8	0.731	43	1
325	2	112	75	32	0	35.7	0.148	21	0
326	1	157	72	21	168	25.6	0.123	24	0
327	1	122	64	32	156	35.1	0.692	30	1
328	10	174	70	0	0	35.1	0.2	37	0
329	2	102	86	36	120	45.5	0.127	25	1
330	6	105	70	32	68	30.8	0.122	37	0
331	8	118	72	19	0	23.1	1.476	46	0
332	2	87	58	16	52	32.7	0.166	25	0
333	1	180	0	0	0	43.3	0.282	41	1
334	12	106	80	0	0	23.6	0.137	44	0
335	1	95	60	18	58	23.9	0.26	22	0
336	0	165	76	43	255	47.9	0.259	26	0
337	0	117	0	0	0	33.8	0.932	44	0
338	5	115	76	0	0	31.2	0.343	44	1
339	9	152	78	34	171	34.2	0.893	33	1
340	7	178	84	0	0	39.9	0.331	41	1
341	1	130	70	13	105	25.9	0.472	22	0
342	1	95	74	21	73	25.9	0.673	36	0
343	1	0	68	35	0	32	0.389	22	0
344	5	122	86	0	0	34.7	0.29	33	0
345	8	95	72	0	0	36.8	0.485	57	0
346	8	126	88	36	108	38.5	0.349	49	0
347	1	139	46	19	83	28.7	0.654	22	0
348	3	116	0	0	0	21.5	0.187	23	0
349	3	99	62	19	74	21.8	0.279	26	0
350	5	0	80	32	0	41	0.346	37	1
351	4	92	80	0	0	42.2	0.237	29	0
352	4	137	84	0	0	31.2	0.252	30	0
353	3	61	82	28	0	34.4	0.243	46	0
354	1	90	62	12	43	27.2	0.58	24	0
355	3	90	78	0	0	42.7	0.559	21	0
356	9	165	88	0	0	30.4	0.302	49	1
357	1	125	50	40	167	33.3	0.962	28	1
358	13	129	0	30	0	39.9	0.569	44	1
359	12	88	74	40	54	35.3	0.378	48	0
360	1	196	76	36	249	36.5	0.875	29	1
361	5	189	64	33	325	31.2	0.583	29	1
362	5	158	70	0	0	29.8	0.207	63	0
363	5	103	108	37	0	39.2	0.305	65	0
364	4	146	78	0	0	38.5	0.52	67	1
365	4	147	74	25	293	34.9	0.385	30	0

**Lampiran 1 Dataset Indian Pima (Lanjutan 6)**

366	5	99	54	28	83	34	0.499	30	0
367	6	124	72	0	0	27.6	0.368	29	1
368	0	101	64	17	0	21	0.252	21	0
369	3	81	86	16	66	27.5	0.306	22	0
370	1	133	102	28	140	32.8	0.234	45	1
371	3	173	82	48	465	38.4	2.137	25	1
372	0	118	64	23	89	0	1.731	21	0
373	0	84	64	22	66	35.8	0.545	21	0
374	2	105	58	40	94	34.9	0.225	25	0
375	2	122	52	43	158	36.2	0.816	28	0
376	12	140	82	43	325	39.2	0.528	58	1
377	0	98	82	15	84	25.2	0.299	22	0
378	1	87	60	37	75	37.2	0.509	22	0
379	4	156	75	0	0	48.3	0.238	32	1
380	0	93	100	39	72	43.4	1.021	35	0
381	1	107	72	30	82	30.8	0.821	24	0
382	0	105	68	22	0	20	0.236	22	0
383	1	109	60	8	182	25.4	0.947	21	0
384	1	90	62	18	59	25.1	1.268	25	0
385	1	125	70	24	110	24.3	0.221	25	0
386	1	119	54	13	50	22.3	0.205	24	0
387	5	116	74	29	0	32.3	0.66	35	1
388	8	105	100	36	0	43.3	0.239	45	1
389	5	144	82	26	285	32	0.452	58	1
390	3	100	68	23	81	31.6	0.949	28	0
391	1	100	66	29	196	32	0.444	42	0
392	5	166	76	0	0	45.7	0.34	27	1
393	1	131	64	14	415	23.7	0.389	21	0
394	4	116	72	12	87	22.1	0.463	37	0
395	4	158	78	0	0	32.9	0.803	31	1
396	2	127	58	24	275	27.7	1.6	25	0
397	3	96	56	34	115	24.7	0.944	39	0
398	0	131	66	40	0	34.3	0.196	22	1
399	3	82	70	0	0	21.1	0.389	25	0
400	3	193	70	31	0	34.9	0.241	25	1
401	4	95	64	0	0	32	0.161	31	1
402	6	137	61	0	0	24.2	0.151	55	0
403	5	136	84	41	88	35	0.286	35	1
404	9	72	78	25	0	31.6	0.28	38	0
405	5	168	64	0	0	32.9	0.135	41	1
406	2	123	48	32	165	42.1	0.52	26	0
407	4	115	72	0	0	28.9	0.376	46	1
408	0	101	62	0	0	21.9	0.336	25	0
409	8	197	74	0	0	25.9	1.191	39	1
410	1	172	68	49	579	42.4	0.702	28	1
411	6	102	90	39	0	35.7	0.674	28	0
412	1	112	72	30	176	34.4	0.528	25	0
413	1	143	84	23	310	42.4	1.076	22	0
414	1	143	74	22	61	26.2	0.256	21	0
415	0	138	60	35	167	34.6	0.534	21	1
416	3	173	84	33	474	35.7	0.258	22	1
417	1	97	68	21	0	27.2	1.095	22	0
418	4	144	82	32	0	38.5	0.554	37	1
419	1	83	68	0	0	18.2	0.624	27	0
420	3	129	64	29	115	26.4	0.219	28	1
421	1	119	88	41	170	45.3	0.507	26	0
422	2	94	68	18	76	26	0.561	21	0
423	0	102	64	46	78	40.6	0.496	21	0
424	2	115	64	22	0	30.8	0.421	21	0
425	8	151	78	32	210	42.9	0.516	36	1
426	4	184	78	39	277	37	0.264	31	1

**Lampiran 1 Dataset Indian Pima (Lanjutan 7)**

427	0	94	0	0	0	0	0.256	25	0
428	1	181	64	30	180	34.1	0.328	38	1
429	0	135	94	46	145	40.6	0.284	26	0
430	1	95	82	25	180	35	0.233	43	1
431	2	99	0	0	0	22.2	0.108	23	0
432	3	89	74	16	85	30.4	0.551	38	0
433	1	80	74	11	60	30	0.527	22	0
434	2	139	75	0	0	25.6	0.167	29	0
435	1	90	68	8	0	24.5	1.138	36	0
436	0	141	0	0	0	42.4	0.205	29	1
437	12	140	85	33	0	37.4	0.244	41	0
438	5	147	75	0	0	29.9	0.434	28	0
439	1	97	70	15	0	18.2	0.147	21	0
440	6	107	88	0	0	36.8	0.727	31	0
441	0	189	104	25	0	34.3	0.435	41	1
442	2	83	66	23	50	31.2	0.497	22	0
443	4	117	64	27	120	33.2	0.23	24	0
444	8	108	70	0	0	30.5	0.955	33	1
445	4	117	62	12	0	29.7	0.38	30	1
446	0	180	78	63	14	59.4	2.42	25	1
447	1	100	72	12	70	25.3	0.658	28	0
448	0	95	80	45	92	36.5	0.33	26	0
449	0	104	64	37	64	33.6	0.51	22	1
450	0	120	74	18	63	30.5	0.285	26	0
451	1	82	64	13	95	21.2	0.415	25	0
452	2	134	70	0	0	28.9	0.542	23	1
453	0	91	68	32	210	39.9	0.381	25	0
454	2	119	0	0	0	19.6	0.832	72	0
455	2	100	54	28	105	37.8	0.498	24	0
456	14	175	62	30	0	33.6	0.212	38	1
457	1	135	54	0	0	26.7	0.687	62	0
458	5	86	68	28	71	30.2	0.364	24	0
459	10	148	84	48	237	37.6	1.001	51	1
460	9	134	74	33	60	25.9	0.46	81	0
461	9	120	72	22	56	20.8	0.733	48	0
462	1	71	62	0	0	21.8	0.416	26	0
463	8	74	70	40	49	35.3	0.705	39	0
464	5	88	78	30	0	27.6	0.258	37	0
465	10	115	98	0	0	24	1.022	34	0
466	0	124	56	13	105	21.8	0.452	21	0
467	0	74	52	10	36	27.8	0.269	22	0
468	0	97	64	36	100	36.8	0.6	25	0
469	8	120	0	0	0	30	0.183	38	1
470	6	154	78	41	140	46.1	0.571	27	0
471	1	144	82	40	0	41.3	0.607	28	0
472	0	137	70	38	0	33.2	0.17	22	0
473	0	119	66	27	0	38.8	0.259	22	0
474	7	136	90	0	0	29.9	0.21	50	0
475	4	114	64	0	0	28.9	0.126	24	0
476	0	137	84	27	0	27.3	0.231	59	0
477	2	105	80	45	191	33.7	0.711	29	1
478	7	114	76	17	110	23.8	0.466	31	0
479	8	126	74	38	75	25.9	0.162	39	0
480	4	132	86	31	0	28	0.419	63	0
481	3	158	70	30	328	35.5	0.344	35	1
482	0	123	88	37	0	35.2	0.197	29	0
483	4	85	58	22	49	27.8	0.306	28	0
484	0	84	82	31	125	38.2	0.233	23	0
485	0	145	0	0	0	44.2	0.63	31	1
486	0	135	68	42	250	42.3	0.365	24	1
487	1	139	62	41	480	40.7	0.536	21	0



**Lampiran 1 Dataset Indian Pima (Lanjutan 8)**

488	0	173	78	32	265	46.5	1.159	58	0
489	4	99	72	17	0	25.6	0.294	28	0
490	8	194	80	0	0	26.1	0.551	67	0
491	2	83	65	28	66	36.8	0.629	24	0
492	2	89	90	30	0	33.5	0.292	42	0
493	4	99	68	38	0	32.8	0.145	33	0
494	4	125	70	18	122	28.9	1.144	45	1
495	3	80	0	0	0	0	0.174	22	0
496	6	166	74	0	0	26.6	0.304	66	0
497	5	110	68	0	0	26	0.292	30	0
498	2	81	72	15	76	30.1	0.547	25	0
499	7	195	70	33	145	25.1	0.163	55	1
500	6	154	74	32	193	29.3	0.839	39	0
501	2	117	90	19	71	25.2	0.313	21	0
502	3	84	72	32	0	37.2	0.267	28	0
503	6	0	68	41	0	39	0.727	41	1
504	7	94	64	25	79	33.3	0.738	41	0
505	3	96	78	39	0	37.3	0.238	40	0
506	10	75	82	0	0	33.3	0.263	38	0
507	0	180	90	26	90	36.5	0.314	35	1
508	1	130	60	23	170	28.6	0.692	21	0
509	2	84	50	23	76	30.4	0.968	21	0
510	8	120	78	0	0	25	0.409	64	0
511	12	84	72	31	0	29.7	0.297	46	1
512	0	139	62	17	210	22.1	0.207	21	0
513	9	91	68	0	0	24.2	0.2	58	0
514	2	91	62	0	0	27.3	0.525	22	0
515	3	99	54	19	86	25.6	0.154	24	0
516	3	163	70	18	105	31.6	0.268	28	1
517	9	145	88	34	165	30.3	0.771	53	1
518	7	125	86	0	0	37.6	0.304	51	0
519	13	76	60	0	0	32.8	0.18	41	0
520	6	129	90	7	326	19.6	0.582	60	0
521	2	68	70	32	66	25	0.187	25	0
522	3	124	80	33	130	33.2	0.305	26	0
523	6	114	0	0	0	0	0.189	26	0
524	9	130	70	0	0	34.2	0.652	45	1
525	3	125	58	0	0	31.6	0.151	24	0
526	3	87	60	18	0	21.8	0.444	21	0
527	1	97	64	19	82	18.2	0.299	21	0
528	3	116	74	15	105	26.3	0.107	24	0
529	0	117	66	31	188	30.8	0.493	22	0
530	0	111	63	0	0	24.6	0.66	31	0
531	2	122	60	18	106	24.8	0.717	22	0
532	0	107	76	0	0	45.3	0.686	24	0
533	1	86	66	52	65	41.3	0.917	29	0
534	6	91	0	0	0	29.8	0.501	31	0
535	1	77	56	30	56	33.3	1.251	24	0
536	4	132	0	0	0	32.9	0.302	23	1
537	0	105	90	0	0	29.6	0.197	46	0
538	0	57	60	0	0	21.7	0.735	67	0
539	0	127	80	37	210	36.3	0.804	23	0
540	3	129	92	49	155	36.4	0.968	32	1
541	8	100	74	40	215	39.4	0.661	43	1
542	3	128	72	25	190	32.4	0.549	27	1
543	10	90	85	32	0	34.9	0.825	56	1
544	4	84	90	23	56	39.5	0.159	25	0
545	1	88	78	29	76	32	0.365	29	0
546	8	186	90	35	225	34.5	0.423	37	1
547	5	187	76	27	207	43.6	1.034	53	1
548	4	131	68	21	166	33.1	0.16	28	0

**Lampiran 1 Dataset Indian Pima (Lanjutan 9)**

549	1	164	82	43	67	32.8	0.341	50	0
550	4	189	110	31	0	28.5	0.68	37	0
551	1	116	70	28	0	27.4	0.204	21	0
552	3	84	68	30	106	31.9	0.591	25	0
553	6	114	88	0	0	27.8	0.247	66	0
554	1	88	62	24	44	29.9	0.422	23	0
555	1	84	64	23	115	36.9	0.471	28	0
556	7	124	70	33	215	25.5	0.161	37	0
557	1	97	70	40	0	38.1	0.218	30	0
558	8	110	76	0	0	27.8	0.237	58	0
559	11	103	68	40	0	46.2	0.126	42	0
560	11	85	74	0	0	30.1	0.3	35	0
561	6	125	76	0	0	33.8	0.121	54	1
562	0	198	66	32	274	41.3	0.502	28	1
563	1	87	68	34	77	37.6	0.401	24	0
564	6	99	60	19	54	26.9	0.497	32	0
565	0	91	80	0	0	32.4	0.601	27	0
566	2	95	54	14	88	26.1	0.748	22	0
567	1	99	72	30	18	38.6	0.412	21	0
568	6	92	62	32	126	32	0.085	46	0
569	4	154	72	29	126	31.3	0.338	37	0
570	0	121	66	30	165	34.3	0.203	33	1
571	3	78	70	0	0	32.5	0.27	39	0
572	2	130	96	0	0	22.6	0.268	21	0
573	3	111	58	31	44	29.5	0.43	22	0
574	2	98	60	17	120	34.7	0.198	22	0
575	1	143	86	30	330	30.1	0.892	23	0
576	1	119	44	47	63	35.5	0.28	25	0
577	6	108	44	20	130	24	0.813	35	0
578	2	118	80	0	0	42.9	0.693	21	1
579	10	133	68	0	0	27	0.245	36	0
580	2	197	70	99	0	34.7	0.575	62	1
581	0	151	90	46	0	42.1	0.371	21	1
582	6	109	60	27	0	25	0.206	27	0
583	12	121	78	17	0	26.5	0.259	62	0
584	8	100	76	0	0	38.7	0.19	42	0
585	8	124	76	24	600	28.7	0.687	52	1
586	1	93	56	11	0	22.5	0.417	22	0
587	8	143	66	0	0	34.9	0.129	41	1
588	6	103	66	0	0	24.3	0.249	29	0
589	3	176	86	27	156	33.3	1.154	52	1
590	0	73	0	0	0	21.1	0.342	25	0
591	11	111	84	40	0	46.8	0.925	45	1
592	2	112	78	50	140	39.4	0.175	24	0
593	3	132	80	0	0	34.4	0.402	44	1
594	2	82	52	22	115	28.5	1.699	25	0
595	6	123	72	45	230	33.6	0.733	34	0
596	0	188	82	14	185	32	0.682	22	1
597	0	67	76	0	0	45.3	0.194	46	0
598	1	89	24	19	25	27.8	0.559	21	0
599	1	173	74	0	0	36.8	0.088	38	1
600	1	109	38	18	120	23.1	0.407	26	0
601	1	108	88	19	0	27.1	0.4	24	0
602	6	96	0	0	0	23.7	0.19	28	0
603	1	124	74	36	0	27.8	0.1	30	0
604	7	150	78	29	126	35.2	0.692	54	1
605	4	183	0	0	0	28.4	0.212	36	1
606	1	124	60	32	0	35.8	0.514	21	0
607	1	181	78	42	293	40	1.258	22	1
608	1	92	62	25	41	19.5	0.482	25	0
609	0	152	82	39	272	41.5	0.27	27	0

**Lampiran 1 Dataset Indian Pima (Lanjutan 10)**

610	1	111	62	13	182	24	0.138	23	0
611	3	106	54	21	158	30.9	0.292	24	0
612	3	174	58	22	194	32.9	0.593	36	1
613	7	168	88	42	321	38.2	0.787	40	1
614	6	105	80	28	0	32.5	0.878	26	0
615	11	138	74	26	144	36.1	0.557	50	1
616	3	106	72	0	0	25.8	0.207	27	0
617	6	117	96	0	0	28.7	0.157	30	0
618	2	68	62	13	15	20.1	0.257	23	0
619	9	112	82	24	0	28.2	1.282	50	1
620	0	119	0	0	0	32.4	0.141	24	1
621	2	112	86	42	160	38.4	0.246	28	0
622	2	92	76	20	0	24.2	1.698	28	0
623	6	183	94	0	0	40.8	1.461	45	0
624	0	94	70	27	115	43.5	0.347	21	0
625	2	108	64	0	0	30.8	0.158	21	0
626	4	90	88	47	54	37.7	0.362	29	0
627	0	125	68	0	0	24.7	0.206	21	0
628	0	132	78	0	0	32.4	0.393	21	0
629	5	128	80	0	0	34.6	0.144	45	0
630	4	94	65	22	0	24.7	0.148	21	0
631	7	114	64	0	0	27.4	0.732	34	1
632	0	102	78	40	90	34.5	0.238	24	0
633	2	111	60	0	0	26.2	0.343	23	0
634	1	128	82	17	183	27.5	0.115	22	0
635	10	92	62	0	0	25.9	0.167	31	0
636	13	104	72	0	0	31.2	0.465	38	1
637	5	104	74	0	0	28.8	0.153	48	0
638	2	94	76	18	66	31.6	0.649	23	0
639	7	97	76	32	91	40.9	0.871	32	1
640	1	100	74	12	46	19.5	0.149	28	0
641	0	102	86	17	105	29.3	0.695	27	0
642	4	128	70	0	0	34.3	0.303	24	0
643	6	147	80	0	0	29.5	0.178	50	1
644	4	90	0	0	0	28	0.61	31	0
645	3	103	72	30	152	27.6	0.73	27	0
646	2	157	74	35	440	39.4	0.134	30	0
647	1	167	74	17	144	23.4	0.447	33	1
648	0	179	50	36	159	37.8	0.455	22	1
649	11	136	84	35	130	28.3	0.26	42	1
650	0	107	60	25	0	26.4	0.133	23	0
651	1	91	54	25	100	25.2	0.234	23	0
652	1	117	60	23	106	33.8	0.466	27	0
653	5	123	74	40	77	34.1	0.269	28	0
654	2	120	54	0	0	26.8	0.455	27	0
655	1	106	70	28	135	34.2	0.142	22	0
656	2	155	52	27	540	38.7	0.24	25	1
657	2	101	58	35	90	21.8	0.155	22	0
658	1	120	80	48	200	38.9	1.162	41	0
659	11	127	106	0	0	39	0.19	51	0
660	3	80	82	31	70	34.2	1.292	27	1
661	10	162	84	0	0	27.7	0.182	54	0
662	1	199	76	43	0	42.9	1.394	22	1
663	8	167	106	46	231	37.6	0.165	43	1
664	9	145	80	46	130	37.9	0.637	40	1
665	6	115	60	39	0	33.7	0.245	40	1
666	1	112	80	45	132	34.8	0.217	24	0
667	4	145	82	18	0	32.5	0.235	70	1
668	10	111	70	27	0	27.5	0.141	40	1
669	6	98	58	33	190	34	0.43	43	0
670	9	154	78	30	100	30.9	0.164	45	0

**Lampiran 1 Dataset Indian Pima (Lanjutan 11)**

671	6	165	68	26	168	33.6	0.631	49	0
672	1	99	58	10	0	25.4	0.551	21	0
673	10	68	106	23	49	35.5	0.285	47	0
674	3	123	100	35	240	57.3	0.88	22	0
675	8	91	82	0	0	35.6	0.587	68	0
676	6	195	70	0	0	30.9	0.328	31	1
677	9	156	86	0	0	24.8	0.23	53	1
678	0	93	60	0	0	35.3	0.263	25	0
679	3	121	52	0	0	36	0.127	25	1
680	2	101	58	17	265	24.2	0.614	23	0
681	2	56	56	28	45	24.2	0.332	22	0
682	0	162	76	36	0	49.6	0.364	26	1
683	0	95	64	39	105	44.6	0.366	22	0
684	4	125	80	0	0	32.3	0.536	27	1
685	5	136	82	0	0	0	0.64	69	0
686	2	129	74	26	205	33.2	0.591	25	0
687	3	130	64	0	0	23.1	0.314	22	0
688	1	107	50	19	0	28.3	0.181	29	0
689	1	140	74	26	180	24.1	0.828	23	0
690	1	144	82	46	180	46.1	0.335	46	1
691	8	107	80	0	0	24.6	0.856	34	0
692	13	158	114	0	0	42.3	0.257	44	1
693	2	121	70	32	95	39.1	0.886	23	0
694	7	129	68	49	125	38.5	0.439	43	1
695	2	90	60	0	0	23.5	0.191	25	0
696	7	142	90	24	480	30.4	0.128	43	1
697	3	169	74	19	125	29.9	0.268	31	1
698	0	99	0	0	0	25	0.253	22	0
699	4	127	88	11	155	34.5	0.598	28	0
700	4	118	70	0	0	44.5	0.904	26	0
701	2	122	76	27	200	35.9	0.483	26	0
702	6	125	78	31	0	27.6	0.565	49	1
703	1	168	88	29	0	35	0.905	52	1
704	2	129	0	0	0	38.5	0.304	41	0
705	4	110	76	20	100	28.4	0.118	27	0
706	6	80	80	36	0	39.8	0.177	28	0
707	10	115	0	0	0	0	0.261	30	1
708	2	127	46	21	335	34.4	0.176	22	0
709	9	164	78	0	0	32.8	0.148	45	1
710	2	93	64	32	160	38	0.674	23	1
711	3	158	64	13	387	31.2	0.295	24	0
712	5	126	78	27	22	29.6	0.439	40	0
713	10	129	62	36	0	41.2	0.441	38	1
714	0	134	58	20	291	26.4	0.352	21	0
715	3	102	74	0	0	29.5	0.121	32	0
716	7	187	50	33	392	33.9	0.826	34	1
717	3	173	78	39	185	33.8	0.97	31	1
718	10	94	72	18	0	23.1	0.595	56	0
719	1	108	60	46	178	35.5	0.415	24	0
720	5	97	76	27	0	35.6	0.378	52	1
721	4	83	86	19	0	29.3	0.317	34	0
722	1	114	66	36	200	38.1	0.289	21	0
723	1	149	68	29	127	29.3	0.349	42	1
724	5	117	86	30	105	39.1	0.251	42	0
725	1	111	94	0	0	32.8	0.265	45	0
726	4	112	78	40	0	39.4	0.236	38	0
727	1	116	78	29	180	36.1	0.496	25	0
728	0	141	84	26	0	32.4	0.433	22	0
729	2	175	88	0	0	22.9	0.326	22	0
730	2	92	52	0	0	30.1	0.141	22	0
731	3	130	78	23	79	28.4	0.323	34	1

**Lampiran 1 Dataset Indian Pima (Lanjutan 12)**

732	8	120	86	0	0	28.4	0.259	22	1
733	2	174	88	37	120	44.5	0.646	24	1
734	2	106	56	27	165	29	0.426	22	0
735	2	105	75	0	0	23.3	0.56	53	0
736	4	95	60	32	0	35.4	0.284	28	0
737	0	126	86	27	120	27.4	0.515	21	0
738	8	65	72	23	0	32	0.6	42	0
739	2	99	60	17	160	36.6	0.453	21	0
740	1	102	74	0	0	39.5	0.293	42	1
741	11	120	80	37	150	42.3	0.785	48	1
742	3	102	44	20	94	30.8	0.4	26	0
743	1	109	58	18	116	28.5	0.219	22	0
744	9	140	94	0	0	32.7	0.734	45	1
745	13	153	88	37	140	40.6	1.174	39	0
746	12	100	84	33	105	30	0.488	46	0
747	1	147	94	41	0	49.3	0.358	27	1
748	1	81	74	41	57	46.3	1.096	32	0
749	3	187	70	22	200	36.4	0.408	36	1
750	6	162	62	0	0	24.3	0.178	50	1
751	4	136	70	0	0	31.2	1.182	22	1
752	1	121	78	39	74	39	0.261	28	0
753	3	108	62	24	0	26	0.223	25	0
754	0	181	88	44	510	43.3	0.222	26	1
755	8	154	78	32	0	32.4	0.443	45	1
756	1	128	88	39	110	36.5	1.057	37	1
757	7	137	90	41	0	32	0.391	39	0
758	0	123	72	0	0	36.3	0.258	52	1
759	1	106	76	0	0	37.5	0.197	26	0
760	6	190	92	0	0	35.5	0.278	66	1
761	2	88	58	26	16	28.4	0.766	22	0
762	9	170	74	31	0	44	0.403	43	1
763	9	89	62	0	0	22.5	0.142	33	0
764	10	101	76	48	180	32.9	0.171	63	0
765	2	122	70	27	0	36.8	0.34	27	0
766	5	121	72	23	112	26.2	0.245	30	0
767	1	126	60	0	0	30.1	0.349	47	1
768	1	93	70	31	0	30.4	0.315	23	0

## Lampiran 2 Dataset Latih

Pregnancies	Glucose	Blood Pressure	Skin Thickness	Insulin	BMI	Diabetes Pedigree Function	Age	Outcome
12	140	82	43	325	39.2	0.528	58	1
11	143	94	33	146	36.6	0.254	51	1
0	100	88	60	110	46.8	0.962	31	0
1	81	72	18	40	26.6	0.283	24	0
2	94	76	18	66	31.6	0.649	23	0
6	92	62	32	126	32	0.085	46	0
7	114	76	17	110	23.8	0.466	31	0
0	98	82	15	84	25.2	0.299	22	0
1	121	78	39	74	39	0.261	28	0
1	117	88	24	145	34.5	0.403	40	1
3	88	58	11	54	24.8	0.267	22	0
1	92	62	25	41	19.5	0.482	25	0
7	94	64	25	79	33.3	0.738	41	0
5	166	72	19	175	25.8	0.587	51	1
13	153	88	37	140	40.6	1.174	39	0
1	181	64	30	180	34.1	0.328	38	1
1	103	30	38	83	43.3	0.183	33	0
0	107	62	30	74	36.6	0.757	25	1
1	103	80	11	82	19.4	0.491	22	0
2	112	68	22	94	34.1	0.315	26	0
3	158	70	30	328	35.5	0.344	35	1
0	95	64	39	105	44.6	0.366	22	0
0	124	56	13	105	21.8	0.452	21	0
3	102	44	20	94	30.8	0.4	26	0
1	128	98	41	58	32	1.321	33	1
1	193	50	16	375	25.9	0.655	24	0
2	125	60	20	140	33.8	0.088	31	0
0	162	76	56	100	53.2	0.759	25	1
1	143	86	30	330	30.1	0.892	23	0
1	119	88	41	170	45.3	0.507	26	0
2	146	70	38	360	28	0.337	29	1
2	81	72	15	76	30.1	0.547	25	0
2	157	74	35	440	39.4	0.134	30	0
1	128	88	39	110	36.5	1.057	37	1
2	107	74	30	100	33.6	0.404	23	0
1	115	70	30	96	34.6	0.529	32	1
1	196	76	36	249	36.5	0.875	29	1
13	152	90	33	29	26.8	0.731	43	1
0	120	74	18	63	30.5	0.285	26	0
1	119	54	13	50	22.3	0.205	24	0
0	78	88	29	40	36.9	0.434	21	0
5	86	68	28	71	30.2	0.364	24	0
2	96	68	13	49	21.1	0.647	26	0
0	74	52	10	36	27.8	0.269	22	0
6	123	72	45	230	33.6	0.733	34	0
8	100	74	40	215	39.4	0.661	43	1
3	111	90	12	78	28.4	0.495	29	0
8	167	106	46	231	37.6	0.165	43	1
0	140	65	26	130	42.6	0.431	24	1
4	184	78	39	277	37	0.264	31	1
8	126	74	38	75	25.9	0.162	39	0
8	181	68	36	495	30.1	0.615	60	1
1	130	70	13	105	25.9	0.472	22	0
1	101	50	15	36	24.2	0.526	26	0
2	87	58	16	52	32.7	0.166	25	0
11	138	74	26	144	36.1	0.557	50	1
9	152	78	34	171	34.2	0.893	33	1
0	95	85	25	36	37.4	0.247	24	1

## Lampiran 2 Dataset Latih (Lanjutan 1)

3	89	74	16	85	30.4	0.551	38	0
1	109	58	18	116	28.5	0.219	22	0
5	139	80	35	160	31.6	0.361	25	1
8	186	90	35	225	34.5	0.423	37	1
3	129	64	29	115	26.4	0.219	28	1
8	151	78	32	210	42.9	0.516	36	1
1	95	60	18	58	23.9	0.26	22	0
7	133	88	15	155	32.4	0.262	37	0
5	88	66	21	23	24.4	0.342	30	0
7	129	68	49	125	38.5	0.439	43	1
7	97	76	32	91	40.9	0.871	32	1
8	126	88	36	108	38.5	0.349	49	0
3	99	80	11	64	19.3	0.284	30	0
2	128	78	37	182	43.3	1.224	31	1
0	102	64	46	78	40.6	0.496	21	0
0	93	60	25	92	28.7	0.532	22	0
2	83	66	23	50	32.2	0.497	22	0
0	91	68	32	210	39.9	0.381	25	0
1	97	66	15	140	23.2	0.487	22	0
1	96	64	27	87	33.2	0.289	21	0
2	82	52	22	115	28.5	1.699	25	0
9	145	80	46	130	37.9	0.637	40	1
2	68	62	13	15	20.1	0.257	23	0
4	111	72	47	207	37.1	1.39	56	1
4	125	70	18	122	28.9	1.144	45	1
1	90	62	12	43	27.2	0.58	24	0
4	146	85	27	100	28.9	0.189	27	0
1	79	80	25	37	25.4	0.583	22	0
6	151	62	31	120	35.5	0.692	28	0
9	112	82	32	175	34.2	0.26	36	1
3	99	62	19	74	21.8	0.279	26	0
0	104	64	37	64	33.6	0.51	22	1
0	138	60	35	167	34.6	0.534	21	1
7	181	84	21	192	35.9	0.586	51	1
0	102	78	40	90	34.5	0.238	24	0
0	165	90	33	680	52.3	0.427	23	0
2	98	60	17	120	34.7	0.198	22	0
0	117	80	31	53	45.2	0.089	24	0
6	165	68	26	168	33.6	0.631	49	0
5	155	84	44	545	38.7	0.619	34	0
4	84	90	23	56	39.5	0.159	25	0
3	191	68	15	130	30.9	0.299	34	0
2	56	56	28	45	24.2	0.332	22	0
1	99	72	30	18	38.6	0.412	21	0
0	127	80	37	210	36.3	0.804	23	0
10	129	76	28	122	35.9	0.28	39	0
4	129	86	20	270	35.1	0.231	23	0
1	114	66	36	200	38.1	0.289	21	0
7	83	78	26	71	29.3	0.767	36	0
3	100	68	23	81	31.6	0.949	28	0
4	148	60	27	318	30.9	0.15	29	1
8	179	72	42	130	32.7	0.719	36	1
0	173	78	32	265	46.5	1.159	58	0
1	100	72	12	70	25.3	0.658	28	0
2	83	65	28	66	36.8	0.629	24	0
12	100	84	33	105	30	0.488	46	0
2	94	68	18	76	26	0.561	21	0
1	90	62	18	59	25.1	1.268	25	0
7	142	60	33	190	28.8	0.687	61	0
1	126	56	29	152	28.7	0.801	21	0

## Lampiran 2 Dataset Latih (Lanjutan 2)

1	111	62	13	182	24	0.138	23	0
4	147	74	25	293	34.9	0.385	30	0
1	143	84	23	310	42.4	1.076	22	0
1	153	82	42	485	40.6	0.687	23	0
1	119	86	39	220	45.6	0.808	29	1
1	116	78	29	180	36.1	0.496	25	0
1	108	60	46	178	35.5	0.415	24	0
6	108	44	20	130	24	0.813	35	0
1	95	66	13	38	19.6	0.334	25	0
5	187	76	27	207	43.6	1.034	53	1
1	77	56	30	56	33.3	1.251	24	0
8	155	62	26	495	34	0.543	46	1
0	94	70	27	115	43.5	0.347	21	0
6	98	58	33	190	34	0.43	43	0
0	105	64	41	142	41.5	0.173	22	0
3	78	50	32	88	31	0.248	26	1
2	127	58	24	275	27.7	1.6	25	0
2	155	74	17	96	26.6	0.433	27	1
5	144	82	26	285	32	0.452	58	1
3	173	78	39	185	33.8	0.97	31	1
1	89	24	19	25	27.8	0.559	21	0
4	96	56	17	49	20.8	0.34	26	0
0	135	94	46	145	40.6	0.284	26	0
5	136	84	41	88	35	0.286	35	1
3	124	80	33	130	33.2	0.305	26	0
1	117	60	23	106	33.8	0.466	27	0
1	80	74	11	60	30	0.527	22	0
2	110	74	29	125	32.4	0.698	27	0
0	180	90	26	90	36.5	0.314	35	1
0	135	68	42	250	42.3	0.365	24	1
7	150	66	42	342	34.7	0.718	42	0
7	168	88	42	321	38.2	0.787	40	1
1	122	90	51	220	49.7	0.325	31	1
1	130	60	23	170	28.6	0.692	21	0
1	71	78	50	45	33.2	0.422	21	0
9	123	70	44	94	33.1	0.374	40	0
4	197	70	39	744	36.7	2.329	31	0
6	105	70	32	68	30.8	0.422	37	0
0	117	66	31	188	30.8	0.493	22	0
2	68	70	32	66	25	0.187	25	0
2	142	82	18	64	24.7	0.761	21	0
3	180	64	25	70	34	0.271	26	0
1	109	38	18	120	23.1	0.407	26	0
0	114	80	34	285	44.2	0.167	27	0
2	100	54	28	105	37.8	0.498	24	0
0	84	82	31	125	38.2	0.233	23	0
1	136	74	50	204	37.4	0.399	24	0
13	145	82	19	110	22.2	0.245	57	0
1	167	74	17	144	23.4	0.447	33	1
3	173	84	33	474	35.7	0.258	22	1
0	126	86	27	120	27.4	0.515	21	0
4	131	68	21	166	33.1	0.16	28	0
3	115	66	39	140	38.1	0.15	28	0
12	151	70	40	271	41.8	0.742	38	1
4	129	60	12	231	27.5	0.527	31	0
1	79	60	42	48	43.5	0.678	23	0
2	122	52	43	158	36.2	0.816	28	0
2	88	58	26	16	28.4	0.766	22	0
6	119	50	22	176	27.1	1.318	33	1
8	74	70	40	49	35.3	0.705	39	0



**Lampiran 2 Dataset Latih (Lanjutan 3)**

2	105	58	40	94	34.9	0.225	25	0
1	172	68	49	579	42.4	0.702	28	1
7	187	50	33	392	33.9	0.826	34	1
1	87	78	27	32	34.6	0.101	22	0
5	77	82	41	42	35.8	0.156	35	0
3	113	50	10	85	29.5	0.626	25	0
0	137	68	14	148	24.8	0.143	21	0
4	103	60	33	192	24	0.966	33	0
3	99	54	19	86	25.6	0.154	24	0
1	109	56	21	135	25.2	0.833	23	0
1	100	66	15	56	23.6	0.666	26	0
3	103	72	30	152	27.6	0.73	27	0
3	96	56	34	115	24.7	0.944	39	0
1	86	66	52	65	41.3	0.917	29	0
5	108	72	43	75	36.1	0.263	33	0
9	134	74	33	60	25.9	0.46	81	0
3	187	70	22	200	36.4	0.408	36	1
1	189	60	23	846	30.1	0.398	59	1
4	109	64	44	99	34.8	0.905	26	1
3	158	76	36	245	31.6	0.851	28	1
4	173	70	14	168	29.7	0.361	33	1
10	148	84	48	237	37.6	1.001	51	1
5	105	72	29	325	36.9	0.159	28	0
2	174	88	37	120	44.5	0.646	24	1
4	85	58	22	49	27.8	0.306	28	0
1	107	72	30	82	30.8	0.821	24	0
2	124	68	28	205	32.9	0.875	30	1
5	126	78	27	22	29.6	0.439	40	0
8	124	76	24	600	28.7	0.687	52	1
9	171	110	24	240	45.4	0.721	54	1
4	117	64	27	120	33.2	0.23	24	0
1	119	44	47	63	35.5	0.28	25	0
2	197	70	45	543	30.1	0.158	53	1
3	116	74	15	105	26.3	0.107	24	0
11	155	76	28	150	33.3	1.353	51	1
17	163	72	41	114	40.9	0.817	47	1
1	133	102	28	140	32.8	0.234	45	1
4	154	72	29	126	31.3	0.338	37	0
1	149	68	29	127	29.3	0.349	42	1
2	101	58	35	90	21.8	0.155	22	0
5	99	54	28	83	34	0.499	30	0
3	123	100	35	240	57.3	0.88	22	0
6	104	74	18	156	29.9	0.722	41	1
2	117	90	19	71	25.2	0.313	21	0
10	125	70	26	115	31.1	0.205	41	1
2	95	54	14	88	26.1	0.748	22	0
0	129	110	46	130	67.1	0.319	26	1
9	145	88	34	165	30.3	0.771	53	1
2	100	68	25	71	38.5	0.324	26	0
3	130	78	23	79	28.4	0.323	34	1
3	120	70	30	135	42.9	0.452	30	0
6	144	72	27	228	33.9	0.255	40	0
1	97	64	19	82	18.2	0.299	21	0
3	171	72	33	135	33.3	0.199	24	1
1	112	72	30	176	34.4	0.528	25	0
1	181	78	42	293	40	1.258	22	1
7	150	78	29	126	35.2	0.692	54	1
1	128	82	17	183	27.5	0.115	22	0
12	92	62	7	258	27.6	0.926	44	1
1	95	82	25	180	35	0.233	43	1

**Lampiran 2 Dataset Latih (Lanjutan 4)**

3	170	64	37	225	34.5	0.356	30	1
0	121	66	30	165	34.3	0.203	33	1
2	100	70	52	57	40.5	0.677	25	0
0	84	64	22	66	35.8	0.545	21	0
8	176	90	34	300	33.7	0.467	58	1
6	93	50	30	64	28.7	0.356	23	0
1	89	66	23	94	28.1	0.167	21	0
1	100	66	29	196	32	0.444	42	0
0	134	58	20	291	26.4	0.352	21	0
2	99	70	16	44	20.4	0.235	27	0
11	120	80	37	150	42.3	0.785	48	1
12	88	74	40	54	35.3	0.378	48	0
7	195	70	33	145	25.1	0.163	55	1
5	158	84	41	210	39.4	0.395	29	1
4	110	76	20	100	28.4	0.118	27	0
3	107	62	13	48	22.9	0.678	23	1
1	112	80	45	132	34.8	0.217	24	0
0	165	76	43	255	47.9	0.259	26	0
4	154	62	31	284	32.8	0.237	23	0
2	112	78	50	140	39.4	0.175	24	0
3	83	58	31	18	34.3	0.336	25	0
2	123	48	32	165	42.1	0.52	26	0
3	128	72	25	190	32.4	0.549	27	1
0	180	78	63	14	59.4	2.42	25	1
2	144	58	33	135	31.6	0.422	25	1
1	128	48	45	194	40.5	0.613	24	1
5	189	64	33	325	31.2	0.583	29	1
0	104	64	23	116	27.8	0.454	23	0
2	101	58	17	265	24.2	0.614	23	0
10	101	76	48	180	32.9	0.171	63	0
2	84	50	23	76	30.4	0.968	21	0
4	116	72	12	87	22.1	0.463	37	0
2	75	64	24	55	29.7	0.37	33	0
9	124	70	33	402	35.4	0.282	34	0
2	155	52	27	540	38.7	0.24	25	1
3	169	74	19	125	29.9	0.268	31	1
8	109	76	39	114	27.9	0.64	31	1
6	134	70	23	130	35.4	0.542	29	1
6	129	90	7	326	19.6	0.582	60	0
2	146	76	35	194	38.2	0.329	29	0
1	87	68	34	77	37.6	0.401	24	0
1	88	30	42	99	55	0.496	26	1
2	112	86	42	160	38.4	0.246	28	0
6	154	74	32	193	29.3	0.839	39	0
10	68	106	23	49	35.5	0.285	47	0
1	71	48	18	76	20.4	0.323	22	0
5	109	62	41	129	35.8	0.514	25	1
2	122	76	27	200	35.9	0.483	26	0
2	122	60	18	106	29.8	0.717	22	0
9	154	78	30	100	30.9	0.164	45	0
4	123	80	15	176	32	0.443	34	0
7	160	54	32	175	30.5	0.588	39	1
1	120	80	48	200	38.9	1.162	41	0
2	108	62	32	56	25.2	0.128	21	0
0	198	66	32	274	41.3	0.502	28	1
2	141	58	34	128	25.4	0.699	24	0
3	81	86	16	66	27.5	0.306	22	0
1	157	72	21	168	25.6	0.123	24	0
10	161	68	23	132	25.5	0.326	47	1
2	105	80	45	191	33.7	0.711	29	1

**Lampiran 2 Dataset Latih (Lanjutan 5)**

1	131	64	14	415	23.7	0.389	21	0
2	100	66	20	90	32.9	0.867	28	1
5	139	64	35	140	28.6	0.411	26	0
5	96	74	18	67	33.6	0.997	43	0
3	173	82	48	465	38.4	2.137	25	1
3	158	64	13	387	31.2	0.295	24	0
1	84	64	23	115	36.9	0.471	28	0
1	144	82	46	180	46.1	0.335	46	1
14	100	78	25	184	36.6	0.412	46	1
1	164	82	43	67	32.8	0.341	50	0
2	127	46	21	335	34.4	0.176	22	0
1	125	50	40	167	33.3	0.962	28	1
6	103	72	32	190	37.7	0.324	55	0
1	106	70	28	135	34.2	0.142	22	0
1	91	54	25	100	25.2	0.234	23	0
1	125	70	24	110	24.3	0.221	25	0
6	154	78	41	140	46.1	0.571	27	0
3	74	68	28	45	29.7	0.293	23	0
3	163	70	18	105	31.6	0.268	28	1
9	156	86	28	155	34.3	1.189	42	1
0	179	50	36	159	37.8	0.455	22	1
7	187	68	39	304	37.7	0.254	41	1
2	102	86	36	120	45.5	0.127	23	1
5	123	74	40	77	34.1	0.269	28	0
2	106	56	27	165	29	0.426	22	0
1	139	46	19	83	28.7	0.654	22	0
2	99	60	17	160	36.6	0.453	21	0
7	81	78	40	48	46.7	0.261	42	0
0	93	100	39	72	43.4	1.021	35	0
0	152	82	39	272	41.5	0.27	27	0
1	121	74	20	23	27.7	0.299	21	0
2	106	64	35	119	30.5	1.4	34	0
0	119	64	18	92	34.9	0.725	23	0
6	99	60	19	54	26.9	0.497	32	0
0	97	64	36	100	36.8	0.6	25	0
3	129	92	49	155	36.4	0.968	32	1
1	143	74	22	61	26.2	0.256	21	0
3	126	88	41	235	39.3	0.704	27	0
7	142	90	24	480	30.4	0.128	43	1
1	109	60	8	182	25.4	0.947	21	0
1	139	62	41	480	40.7	0.536	21	0
4	90	88	47	54	37.7	0.362	29	0
1	87	60	37	75	37.2	0.509	22	0
4	91	70	32	88	33.1	0.446	22	0
4	144	58	28	140	29.5	0.287	37	0
1	95	74	21	73	25.9	0.673	36	0

### Lampiran 3 Dataset Uji

Pregnancies	Glucose	Blood Pressure	Skin Thickness	Insulin	BMI	Diabetes Pedigree Function	Age	Outcome
6	134	80	37	370	46.2	0.238	46	1
1	88	78	29	76	32	0.365	29	0
2	108	52	26	63	32.5	0.318	22	0
0	106	70	37	148	39.4	0.605	22	0
0	102	86	17	105	29.3	0.695	27	0
2	121	70	32	95	39.1	0.886	23	0
0	95	80	45	92	36.5	0.33	26	0
11	136	84	35	130	28.3	0.26	42	1
0	118	64	23	89	32	1.731	21	0
3	80	82	31	70	34.2	1.292	27	1
4	99	76	15	51	23.2	0.223	21	0
1	81	74	41	57	46.3	1.096	32	0
7	124	70	33	215	25.5	0.161	37	0
5	121	72	23	112	26.2	0.245	30	0
2	129	74	26	205	33.2	0.591	25	0
1	82	64	13	95	21.2	0.415	23	0
0	126	84	29	215	30.7	0.52	24	0
2	99	52	15	94	24.6	0.637	21	0
7	136	74	26	135	26	0.647	51	0
1	122	64	32	156	35.1	0.692	30	1
1	100	74	12	46	19.5	0.149	28	0
0	128	68	19	180	30.5	1.391	25	1
1	118	58	36	94	33.3	0.261	23	0
5	117	86	30	105	39.1	0.251	42	0
0	188	82	14	185	32	0.682	22	1
15	136	70	32	110	37.1	0.153	43	1
4	127	88	11	155	34.5	0.598	28	0
3	106	54	21	158	30.9	0.292	24	0
2	108	62	10	278	25.3	0.881	22	0
0	100	70	26	50	30.8	0.597	21	0
3	84	68	30	106	31.9	0.591	25	0
8	196	76	29	280	37.5	0.605	57	1
0	139	62	17	210	22.1	0.207	21	0
2	88	74	19	53	29	0.229	22	0
3	176	86	27	156	33.3	1.154	52	1
3	174	58	22	194	32.9	0.593	36	1
1	89	76	34	37	31.2	0.192	23	0
0	181	88	44	510	43.3	0.222	26	1
9	120	72	22	56	20.8	0.733	48	0
0	118	84	47	230	45.8	0.551	31	1
0	137	40	35	168	43.1	2.288	33	1
3	111	58	31	44	29.5	0.43	22	0
7	102	74	40	105	37.2	0.204	45	0
2	93	64	32	160	38	0.674	23	1
2	120	76	37	105	39.7	0.215	29	0
2	90	80	14	55	24.4	0.249	24	0
6	125	68	30	120	30	0.464	32	0
1	140	74	26	180	24.1	0.828	23	0
1	88	62	24	44	29.9	0.422	23	0
0	177	60	29	478	34.6	1.072	21	1

#### Lampiran 4 Listing Program Identifikasi Diabetes Melitus

```
1 import pandas as pd
2 import numpy as np
3 import matplotlib.pyplot as plt
4 dataset = pd.read_csv('/Users/lenovo/Downloads/dataset156/
skripsi/dataset_diabetes.csv')
5 Dataset
6
7 #RATA RATA
8 import math
9 dataset['Glucose'].fillna(math.floor(dataset['Glucose'].
mean()),inplace=True)
10 dataset['BMI'].fillna(math.floor(dataset['BMI'].mean()),
inplace=True)
11 dataset['BloodPressure'].fillna(math.floor(dataset['BloodPr
essure'].mean()),inplace=True)
12
13 #Menghapus
14 dataset = dataset.dropna()
15 Dataset
16
17 x = dataset.iloc[:, 0:10].values
18 y = dataset.iloc[:, -1].values
19 from sklearn.model_selection import train_test_split
20 x_train, x_test, y_train, y_test = train_test_split(x, y,
test_size = 0.126, random_state = 0)
21 train = pd.DataFrame(x_train)
22 Train
23 test = pd.DataFrame(x_test)
24 Test
25
26 train.to_csv('/Users/lenovo/Downloads/dataset156/skripsi/
data_latih.csv')
27 test.to_csv('/Users/lenovo/Downloads/dataset156/skripsi/
data_uji.csv')
28
29 import pandas as pd
30 import numpy as np
31 from sklearn.neighbors import KNeighborsClassifier
32 from sklearn.metrics import accuracy_score
33 from sklearn.metrics import confusion_matrix
34 from sklearn.model_selection import GridSearchCV
35
36 df = pd.read_csv('/Users/lenovo/Downloads/dataset156/
skripsi/data_latih.csv')
37 X_train = df.values
38 X_train = np.delete(X_train,8,axis=1)
39 y_train = df['Outcome'].values
40
41 df = pd.read_csv('/Users/lenovo/Downloads/dataset156/
skripsi/data_uji.csv')
42 X_test = df.values
43 X_test = np.delete(X_test,8,axis=1)
44 y_test = df['Outcome'].values
45
46 knn_clf = KNeighborsClassifier(n_neighbors=9)
47 knn_clf.fit(X_train,y_train)
```

#### Lampiran 4 Listing Program Identifikasi Diabetes Melitus (Lanjutan)

```
48 y_pred = knn_clf.predict(X_test)
49 round(accuracy_score(y_test,y_pred),3)
50
51 cm = confusion_matrix(y_test, y_pred)
52 print('===Hasil Confusion Matriks===')
53 cm = pd.DataFrame(cm)
54 print(cm)
55
56 import pickle
57 with open ('knn_pickle_fix', 'wb') as r:
58     pickle.dump(knn_clf,r)
59 with open ('knn_pickle_fix', 'rb') as r:
60     knnp = pickle.load(r)
61 y_pred = knnp.predict(X_test)
62 round (accuracy_score(y_test,y_pred),3)
63
64 from PyQt5.QtWidgets import *
65 from PyQt5 import uic
66 import pickle
67 import numpy as np
68 import sklearn
69
70 with open('knn_pickle_fix','rb') as r:
71     model = pickle.load(r)
72
73 def diabetes():
74     banyakMelahirkan = float(window.input_melahirkan.
75         text())
76     kadarGlukosa = float(window.input_glukosa.text())
77     tekananDarah = float(window.input_darah.text())
78     ketebalanLipatanKulit = float(window.input_kulit.
79         text())
80     kadarInsulin = float(window.input_insulin.text())
81     bmi = float(window.input_bmi.text())
82     derajatRiwayatDiabetes = float(window.input_riwayat.
83         text())
84     umur = float(window.input_umur.text())
85     dataPasien = np.array((banyakMelahirkan,kadarGlukosa,
86         tekananDarah,ketebalanLipatanKulit,kadarInsulin,
87         bmi,derajatRiwayatDiabetes, umur))
88     data = np.reshape(dataPasien,(1,-1))
89     isDiabetes = model.predict(data)
90
91     if(isDiabetes==1):
92         window.label_kesimpulan.setText('POSITIF DIABETES')
93     elif(isDiabetes==0):
94         window.label_kesimpulan.setText('NEGATIF DIABETES')
95
96 app = QApplication([])
97 window = QMainWindow()
98 uic.loadUi('diabetes.ui', window)
99 window.setWindowTitle('Deteksi Diabetes')
100 window.show()
101 window.button_prediksi.clicked.connect(diabetes)
102 app.exec_()
```

**Lampiran 5 Foto Wawancara Dengan Dokter di Puskesmas Paiton**



Lampiran 6 Form Bimbingan Skripsi (Pembimbing 1)



UNIVERSITAS NURUL JADID  
PAITON, PROBOLINGGO  
FAKULTAS TEKNIK INFORMATIKA  
PROGRAM STRATA SATU

BERITA ACARA BIMBINGAN SKRIPSI/TESIS

Nama : UMIKULSUM INDAH LESTARI  
NIM : 17010078  
Program Studi : TEKNIK INFORMATIKA  
Judul Skripsi : PENERAPAN METODE *K-NEAREST NEIGHBOR (KNN)* UNTUK SISTEM  
PENDUKUNG KEPUTUSAN IDENTIFIKASI PENYAKIT *DIABETES  
MELITUS*  
Nama Pembimbing : 1. ANIS YUSROTUN NADHIROH, S.Kom, M.MT.  
: 2. CAHYUNI NOVIA, S.E., M.P.

Konsultasi

TANGGAL	URAIAN PEMBIMBING	PARAF PEMBIMBING
9/5/21	Revisi Bab 1 & 2	As
25/5/21	Acc Bab 1 & 2, lanjut Bab 3	As
7/9/21	Revisi Bab 3, lanjut Bab 4	As
21/9/21	Acc Bab 4, Revisi Bab 5	As
9/6/21	Revisi Saran Bab 5	As
19/6/21	Acc Bab 5	As
26/6/21	Revisi Jurnal	As
12/7/21	Acc Jurnal & Acc Ujian	As

Selesai menulis skripsi/tesis tgl. : 10 Agustus 2021  
Bimbingan telah selesai tgl. : 10 Agustus 2021  
Ujian/Munaqasyah skripsi/tesis tgl. : 14 Agustus 2021  
Nilai ujian/munaqasyah : ( )

Dosen Pembimbing I,

  
(ANIS YUSROTUN N, S.Kom, M.MT.)



10 Agustus 2021  
  
(DORI OKTAGALU P., S.Pd., M.Kom.)



## Lampiran 7 Form Bimbingan Skripsi (Pembimbing 2)



UNIVERSITAS NURUL JADID  
PAITON, PROBOLINGGO  
FAKULTAS TEKNIK INFORMATIKA  
PROGRAM STRATA SATU

### BERITA ACARA BIMBINGAN SKRIPSI/TESIS

Nama : UMIKULSUM INDAH LESTARI  
NIM : 17010078  
Program Studi : TEKNIK INFORMATIKA  
Judul Skripsi : PENERAPAN METODE *K-NEAREST NEIGHBOR (KNN)* UNTUK SISTEM  
PENDUKUNG KEPUTUSAN IDENTIFIKASI PENYAKIT *DIABETES  
MELITUS*  
Nama Pembimbing : 1. ANIS YUSROTUN NADHIROH, S.Kom, M.MT.  
: 2. CAHYUNI NOVIA, S.E., M.P.

#### Konsultasi

TANGGAL	URAIAN PEMBIMBING	PARAF PEMBIMBING
15/03 <sup>21</sup>	Revisi Bab 1 & 2	CaHYuni
16/03 <sup>21</sup>	Acc Bab 1 & 2	CaHYuni
31/03 <sup>21</sup>	Revisi Bab 3 & 4	CaHYuni
16/04 <sup>21</sup>	Acc Bab 3 Revisi bab 4	CaHYuni
27/04 <sup>21</sup>	Acc Bab 4	CaHYuni
24/06 <sup>21</sup>	Revisi Bab 5	CaHYuni
18/07 <sup>21</sup>	Acc Bab 5 Revisi Jurnal	CaHYuni
26/07 <sup>21</sup>	Acc Jurnal & Acc ujian	CaHYuni

Selesai menulis skripsi/tesis tgl. : 10 Agustus 2021  
Bimbingan telah selesai tgl. : 10 Agustus 2021  
Ujian/Munaqasyah skripsi/tesis tgl. : 14 Agustus 2021  
Nilai ujian/munaqasyah : ( )

Dosen Pembimbing II,

CaHYuni

(CAHYUNI NOVIA, S.E., M.P.)



(GULIYORIK OKTAGALU P., S.Pd., M.Kom.)

## Lampiran 8 Surat Permohonan Penelitian



YAYASAN NURUL JADID PAITON  
FAKULTAS TEKNIK  
UNIVERSITAS NURUL JADID  
PROBOLINGGO JAWA TIMUR

PP. Nurul Jadid  
Karanganyar Paiton  
Probolinggo 67291  
☎ 0888 30 77077  
ft@unuja.ac.id

Nomor : NJ-T06/02/78-009/A.3/03.2021  
Lampiran : -  
Perihal : Permohonan Penelitian

Kepada Yth.  
Bapak/Ibu:

Kepala Puskesmas Paiton  
di  
Tempat

**Assalamu'alaikum Wr. Wb.**

Bersama ini kami sampaikan dengan hormat, bahwa mahasiswa di bawah ini :

Nama : Umikulsum Indah Lestari  
NIM : 17010078  
Prodi : S1 Teknik Informatika

Adalah mahasiswa semester akhir Fakultas Teknik Universitas Nurul Jadid yang sedang dalam proses penyelesaian Skripsi, maka dari itu mahasiswa/mahasiswi tersebut perlu mengadakan penelitian di Puskesmas yang Bapak/Ibu pimpin, untuk pembuatan laporan Skripsi dengan judul "**Penerapan Metode K-Nearest Neighbor (KNN) Untuk Sistem Pendukung Keputusan Identifikasi Penyakit Diabetes Melitus**".

Untuk keperluan tersebut di atas kami mohon perkenan Bapak/Ibu untuk memberikan ijin kepada mahasiswa yang bersangkutan. Demikian permohonan ini, atas perkenannya kami sampaikan terima kasih.

**Wassalamu'alaikum Wr. Wb.**

17 Maret 2021  
Dekan Fakultas Teknik  
  
KAMIL MALIK, M.Kom

## Lampiran 9 Surat Balasan Dari Instansi



PEMERINTAH KABUPATEN PROBOLINGGO  
DINAS KESEHATAN  
PUSKESMAS PAITON

Jl. Raya Paiton No. 302 A- Paiton – Probolinggo 67291 Telp. 0335- 771039

**SURAT KETERANGAN PENELITIAN**

Nomor : 094/ 453 /426.102.17/2021.

Yang bertanda tangan dibawah ini :

Nama : dr. NINA KARTIKA,MM.Kes  
N I P : 19690328 200212 2 004.  
Gol / Pangkat : Pembina / IV a  
Jabatan : Kepala Puskesmas  
Unit Kerja : Puskesmas Paiton

**DENGAN INI MENYATAKAN BAHWA :**

Nama : UMIKULSUM INDAH LESTARI  
N I M : 17010078  
Program Studi : Sarjana Teknik Informatika  
Universitas : Nurul Jadid - Paiton

Dengan ini menyatakan, bahwa mahasiswa diatas telah melakukan wawancara terkait judul skripsi " PENERAPAN METODE K- NEAREST NEIGHBOR (KNN) UNTUK SISTEM PENDUKUNG KEPUTUSAN IDENTIFIKASI PENYAKIT DIABETUS MELITUS" di Puskesmas Paiton pada tahun 2021.

Demikian surat keterangan ini dibuat untuk dipergunakan sebagaimana mestinya.

Dikeluarkan : Probolinggo  
Pada Tanggal : 8 September 2021.



**dr. NINA KARTIKA, MM.Kes**  
Pembina  
NIP. 19690328 200212 2 004.

## Lampiran 10 Letter Of Acceptance (LOA)

### LETTER OF ACCEPTANCE

Kepada Yth :  
**Umikulsum Indah Lestari, Anis Yusrotun Nadhiroh, Cahyuni Novia**  
Di Tempat  
Dengan Hormat,

Melalui surat ini kami sampaikan bahwa makalah Saudara dengan judul :

**“PENERAPAN METODE K-NEAREST NEIGHBOR UNTUK SISTEM PENDUKUNG  
KEPUTUSAN IDENTIFIKASI PENYAKIT DIABETES MELITUS”**

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