



LAMPIRAN

Lampiran 1

Menunjukkan turunan dari $f(H) = \pi_{ij}$ adalah $f'(H) = \pi_{ij}(1 - \pi_{ij})$:

Diketahui :

$$f(H) = \pi_{ij} = \pi(\mathbf{x}_{ij}) = \frac{e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})}}{1 + e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})}}$$

Maka turunan pertama dari $f'(H)$ adalah sebagai berikut :

$$\begin{aligned} f'(H) &= \frac{e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})} (1 + e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})}) - e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})} e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})}}{(1 + e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})})^2} \\ &= \frac{e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})} + (e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})})^2 - (e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})})^2}{(1 + e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})})^2} \\ &= \frac{e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})}}{(1 + e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})})^2} \\ &= \left(\frac{e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})}}{1 + e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})}} \right) \left(\frac{1}{1 + e^{(\beta_0 + \beta_1 x_{1ij} + \dots + \beta_P x_{Pij})}} \right) \\ &= \pi(\mathbf{x}_{ij})(1 - \pi(\mathbf{x}_{ij})) \end{aligned}$$

$\pi(\mathbf{x}_{ij})$ dapat dituliskan sebagai π_{ij} , sehingga $f'(H)$ pada persamaan di atas

dapat ditulis dalam bentuk :

$$f'(H) = \pi_{ij}(1 - \pi_{ij})$$

Lampiran 2

Data hasil survey mengenai penggunaan hak pilih dalam pemilu di Eropa.

	ctry_id[3300]	individual_id[330]	turnout[3300]	age_at_selecti[33]	polintr[3300]	partymember[33]	minethnic[3300]	sex[3]
1	1	1	1	46	0	0	0	0
2	1	2	1	46	0	0	0	1
3	1	3	1	37	1	0	0	1
4	1	4	0	30	1	0	0	1
5	1	5	1	50	1	0	0	1
6	1	6	1	60	0	0	0	0
7	1	7	1	68	1	0	0	0
8	1	8	1	40	0	0	1	1
9	1	9	1	49	1	0	1	1
10	1	10	1	50	1	0	0	0
11	1	11	1	44	0	0	0	1
12	1	12	0	77	0	0	0	0
13	1	13	1	73	1	0	0	0
14	1	14	0	75	1	0	0	1
15	1	15	1	33	1	0	0	0
16	1	16	1	43	1	0	0	1
17	1	17	1	32	0	0	0	1
18	1	18	1	58	1	1	0	0
19	1	19	1	53	1	0	0	1
20	1	20	1	74	1	0	0	0
21	1	21	1	38	1	0	0	1
22	1	22	1	36	1	0	0	1
23	1	23	1	74	1	1	0	0
24	1	24	1	54	0	0	0	1
25	1	25	0	76	0	0	0	1
26	1	26	1	37	0	0	0	1
27	1	27	1	50	1	0	0	1
28	1	28	1	34	0	0	0	1
29	1	29	1	39	0	1	0	0
30	1	30	1	39	0	0	0	0
31	1	31	1	20	1	1	0	0
32	1	32	0	26	1	1	0	0
33	1	33	1	30	0	0	0	1
34	1	34	0	38	0	0	0	1
35	1	35	0	63	0	0	0	1
36	1	36	0	42	0	0	0	0
37	1	37	1	31	1	0	0	0
38	1	38	1	62	1	1	0	0
39	1	39	1	33	1	0	0	0
40	1	40	0	70	1	0	0	0
41	1	41	1	80	0	0	0	1
42	1	42	1	21	1	0	0	0
43	1	43	0	60	0	0	1	1
44	1	44	0	38	0	0	0	1
45	1	45	1	27	1	1	0	0
46	1	46	1	60	1	0	0	1
47	1	47	1	35	0	0	0	1
48	1	48	0	38	1	0	0	1
49	1	49	1	35	0	0	0	1
50	1	50	1	37	0	1	0	1
51	1	51	1	66	1	1	0	0
52	1	52	1	51	1	1	0	0
53	1	53	1	44	1	0	0	1
54	1	54	0	21	0	0	0	0
55	1	55	1	37	1	1	0	0
56	1	56	1	43	1	1	0	0
57	1	57	1	43	1	0	0	1
58	1	58	1	52	0	1	1	0
59	1	59	1	64	0	0	0	0
60	1	60	1	46	0	0	0	1
61	1	61	1	76	0	0	0	1
62	1	62	1	47	1	1	0	0

city_id[3300]	individual_id[33]	turnout[3300]	age_at_elect[33]	polish[3300]	partymember[33]	minethnic[3300]	sex[33]
82	1	65	1	44	1	0	0
83	1	66	1	52	1	0	0
84	1	67	1	28	0	0	1
85	1	68	1	72	1	1	0
86	1	70	0	37	1	1	0
87	1	71	1	29	0	0	1
88	1	72	0	56	1	0	0
89	1	73	1	53	1	1	0
90	1	74	1	34	1	0	0
91	1	75	1	56	1	0	0
92	1	77	1	32	0	0	1
93	1	78	1	63	1	0	1
94	1	79	0	50	1	0	1
95	1	80	1	40	1	0	0
96	1	81	1	75	1	0	0
97	1	82	0	37	0	0	0
98	1	83	1	19	1	1	0
99	1	85	1	35	1	0	0
100	1	86	1	50	0	0	0
101	1	87	1	32	1	0	0
102	1	88	1	54	1	1	0
103	1	89	1	59	1	1	0
104	1	90	1	39	0	1	0
105	1	91	1	40	0	0	1
106	1	92	1	62	0	0	0
107	1	93	1	60	1	0	1
108	1	94	1	76	1	0	0
109	1	95	1	48	1	1	0
110	1	96	1	26	1	0	1
111	1	97	1	63	1	0	0
112	1	98	1	22	0	1	0
113	1	99	1	40	1	1	0
114	1	100	1	39	1	0	0
115	1	101	1	41	0	0	1
116	1	102	1	38	1	0	0
117	1	103	1	28	1	0	1
118	1	104	1	56	1	0	1
119	1	105	1	45	0	0	1
120	1	106	1	49	0	0	1
121	1	107	1	32	0	0	0
122	1	108	1	84	1	1	1
123	1	109	1	59	0	0	1
124	1	110	1	27	1	0	1
125	1	111	1	55	1	0	1
126	1	112	0	50	0	0	1
127	1	113	0	33	0	0	0
128	1	114	0	20	0	0	0
129	1	115	1	29	1	0	1
130	1	116	0	21	0	0	1
131	1	117	1	20	1	0	1
132	1	118	0	50	1	0	1
133	1	119	1	35	1	0	1
134	1	120	1	38	0	0	1
135	1	121	1	20	0	0	1
136	1	122	0	48	0	0	0
137	1	123	0	51	0	0	0
138	1	124	0	50	0	0	0
139	1	125	1	29	1	0	0
140	1	126	0	52	0	0	0
141	1	127	1	59	1	0	0
142	1	128	0	32	0	0	1
143	1	129	1	41	1	0	0
144	1	130	1	37	1	0	1
145	1	131	1	58	1	0	1
146	1	132	0	58	1	0	1
147	1	133	0	58	1	0	1
148	1	134	0	58	1	0	1
149	1	135	0	58	1	0	1
150	1	136	0	58	1	0	1
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153	1	139	0	58	1	0	1
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157	1	143	0	58	1	0	1
158	1	144	0	58	1	0	1
159	1	145	0	58	1	0	1
160	1	146	0	58	1	0	1
161	1	147	0	58	1	0	1
162	1	148	0	58	1	0	1
163	1	149	0	58	1	0	1
164	1	150	0	58	1	0	1
165	1	151	0	58	1	0	1
166	1	152	0	58	1	0	1
167	1	153	0	58	1	0	1
168	1	154	0	58	1	0	1
169	1	155	0	58	1	0	1
170	1	156	0	58	1	0	1
171	1	157	0	58	1	0	1
172	1	158	0	58	1	0	1
173	1	159	0	58	1	0	1
174	1	160	0	58	1	0	1
175	1	161	0	58	1	0	1
176	1	162	0	58	1	0	1
177	1	163	0	58	1	0	1
178	1	164	0	58	1	0	1
179	1	165	0	58	1	0	1
180	1	166	0	58	1	0	1
181	1	167	0	58	1	0	1
182	1	168	0	58	1	0	1
183	1	169	0	58	1	0	1
184	1	170	0	58	1	0	1
185	1	171	0	58	1	0	1
186	1	172	0	58	1	0	1
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197	1	183	0	58	1	0	1
198	1	184	0	58	1	0	1
199	1	185	0	58	1	0	1
200	1	186	0	58	1	0	1
201	1	187	0	58	1	0	1
202	1	188	0	58	1	0	1
203	1	189	0	58	1	0	1
204	1	190	0	58	1	0	1
205	1	191	0	58	1	0	1
206	1	192	0	58	1	0	1
207	1	193	0	58	1	0	1
208	1	194	0	58	1	0	1
209	1	195	0	58	1	0	1
210	1	196	0	58	1	0	1
211	1	197	0	58	1	0	1
212	1	198	0	58	1	0	1
213	1	199	0	58	1	0	1
214	1	200	0	58	1	0	1
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216	1	202	0	58	1	0	1
217	1	203	0	58	1	0	1
218	1	204	0	58	1	0	1
219	1	205	0	58	1	0	1
220	1	206	0	58	1	0	1
221	1	207	0	58	1	0	1
222	1	208	0	58	1	0	1
223	1	209	0	58	1	0	1
224	1	210	0	58	1	0	1
225	1	211	0	58	1	0	1
226	1	212	0	58	1	0	1
227	1	213	0	58	1	0	1
228	1	214	0	58	1	0	1
229	1	215	0	58	1	0	1
230	1	216	0	58	1	0	1
231	1	217	0	58	1	0	1
232	1	218	0	58	1	0	1
233	1	219	0	58	1	0	1
234	1	220	0	58	1	0	1
235	1	221	0	58	1	0	1
236	1	222	0	58	1	0	1
237	1	223	0	58	1	0	1
238	1	224	0	58	1	0	1
239	1	225	0	58	1	0	1
240	1	226	0	58	1	0	1
241	1	227	0	58	1	0	1
242	1	228	0	58	1	0	1
243	1	229	0	58	1	0	1
244	1	230	0	58	1	0	1
245	1	231	0	58	1	0	1
246	1	232	0	58	1	0	1
247	1	233	0	58	1	0	1
248	1	234	0	58	1	0	1
249	1	235	0	58	1	0	1
250	1	236	0	58	1	0	1
251	1	237	0	58	1	0	1
252	1	238	0	58	1	0	1
253	1	239	0	58	1	0	1
254	1	240	0	58	1	0	1
255	1	241	0	58	1	0	1
256	1	242	0	58	1	0	1
257	1	243	0	58	1	0	1
258	1	244	0	58	1	0	1
259	1	245	0	58	1	0	1
260	1	246	0	58	1	0	1
261	1	247	0	58	1	0	1
262	1	248	0	58	1	0	1
263	1	249	0	58	1	0	1
264	1	250	0	58	1	0	1
265	1	251	0	58	1	0	1
266	1	252	0	58	1	0	1
267	1	253	0	58	1	0	1
268	1	254	0	58	1	0	1
269	1	255	0	58	1	0	1
270	1	256	0	58	1	0	1
271	1	257	0	58	1	0	1
272	1	258	0	58	1	0	1
273	1	259	0	58	1	0	1
274	1	260	0	58	1	0	1

	ctry_id[3300]	Individual_id[330]	turnout[3300]	age	ct_elect[33]	polint[3300]	partymember[33]	minethnic[3300]	sex[33]
179	1	100	0	41	1	0	1	0	0
180	1	100	1	83	0	0	0	0	1
181	1	100	1	38	1	0	0	0	0
182	1	101	1	48	1	0	0	0	1
183	1	102	1	77	0	0	0	0	1
184	1	103	1	41	1	0	1	0	0
185	1	104	1	33	1	0	0	0	1
106	1	105	1	37	1	0	0	0	1
107	1	106	1	27	1	0	0	0	1
108	1	107	0	39	0	0	0	0	1
109	1	108	1	34	1	0	0	0	1
100	1	109	1	30	0	0	0	0	1
191	1	200	1	61	1	1	0	0	0
192	2	201	1	53	1	0	0	0	1
193	2	202	1	30	0	0	0	0	1
194	2	203	1	34	1	0	0	0	0
195	2	204	1	41	0	0	0	0	1
196	2	205	1	42	1	0	0	0	1
197	2	206	1	54	1	0	0	0	0
198	2	207	1	71	1	0	0	0	0
199	2	208	1	33	0	0	0	0	0
200	2	209	1	52	1	0	0	0	0
201	2	210	1	10	0	0	0	0	0
202	2	211	0	70	0	0	0	0	0
203	2	212	0	36	0	0	0	0	1
204	2	213	1	44	1	0	0	0	0
205	2	214	1	40	1	0	0	0	0
206	2	215	1	60	0	0	0	0	1
207	2	216	1	42	0	0	0	0	1
208	2	218	1	44	1	0	0	0	0
209	2	219	1	76	1	0	0	0	0
210	2	221	1	64	0	0	0	0	1
211	2	222	1	73	1	1	0	0	1
212	2	223	1	77	1	1	0	0	1
213	2	224	1	52	1	0	0	0	1
214	2	225	0	88	0	0	0	0	1
215	2	226	0	85	0	0	0	0	0
216	2	227	1	50	0	1	0	0	0
217	2	228	1	57	1	0	0	0	1
218	2	229	1	28	1	0	0	0	0
219	2	230	1	27	0	0	0	0	1
220	2	231	1	64	0	0	0	0	1
221	2	232	0	79	0	0	0	0	1
222	2	233	1	55	0	0	0	0	0
223	2	234	1	84	1	0	0	0	1
224	2	235	1	70	1	0	0	0	0
225	2	236	1	11	0	0	0	0	0
226	2	237	1	22	0	0	0	0	1
227	2	238	1	70	0	0	0	0	1
228	2	239	1	27	1	0	0	0	0
229	2	240	1	20	0	0	0	0	0
230	2	241	1	21	0	0	0	0	1
231	2	242	1	30	0	0	0	0	0
202	2	243	1	40	1	0	0	0	0
233	2	244	1	10	1	0	0	0	0
234	2	245	1	20	0	0	0	0	1
235	2	246	1	56	1	1	0	0	0
236	2	247	1	40	1	0	0	0	0
237	2	248	1	43	0	0	0	0	0
238	2	249	0	31	0	0	0	0	1
239	2	250	1	27	1	0	0	0	0
240	2	251	1	50	1	0	0	0	0
241	2	252	1	43	1	0	0	0	1
242	2	253	1	27	1	0	0	0	0
		⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

city_id[3300]	individual_id[337]	turnout[3300]	age_at_elect[33]	polinf[3300]	partymember[32]	mineltrunc[3300]	sex[32]
320	2	331	1	48	1	0	0
321	2	332	1	55	0	0	1
322	2	333	1	26	0	0	1
323	2	334	1	30	0	0	0
324	2	335	1	74	0	0	0
325	2	336	1	51	0	0	1
326	2	337	1	30	0	0	1
327	2	338	1	48	1	0	0
328	2	339	1	51	1	0	1
329	2	340	0	19	0	0	0
330	1	341	1	20	0	0	0
331	1	342	1	43	0	0	0
332	1	343	1	43	0	0	0
333	4	344	1	67	0	0	1
334	4	345	1	61	1	0	0
335	4	346	1	54	0	0	1
336	4	347	0	57	0	0	1
337	4	348	0	61	0	0	1
338	1	360	1	68	0	0	1
339	1	361	0	36	0	0	1
340	1	362	0	36	0	0	0
341	4	363	1	36	0	0	1
342	4	364	1	69	1	0	1
343	4	365	0	31	0	0	1
344	4	366	1	60	1	0	1
345	4	367	1	82	1	0	1
346	4	368	1	82	1	0	1
347	1	369	1	49	1	0	0
348	1	370	1	72	1	0	0
349	4	361	1	60	0	0	1
350	4	362	0	54	0	0	0
351	4	363	1	45	0	0	1
352	4	364	1	23	1	0	0
353	4	365	0	32	0	0	0
354	4	366	0	85	0	0	1
355	4	367	1	54	0	0	0
356	4	368	0	56	0	0	1
357	4	369	1	74	0	0	1
358	4	370	1	21	0	0	1
359	4	371	0	73	0	0	1
360	4	372	0	80	0	0	1
361	4	373	1	77	0	0	1
362	1	374	1	56	0	0	0
363	1	375	0	58	1	0	0
364	4	376	0	31	0	0	1
365	4	377	0	71	0	0	0
366	4	378	0	75	0	0	0
367	4	379	1	58	1	0	0
368	4	380	0	59	0	0	0
369	1	381	1	19	0	0	0
370	1	382	0	50	0	0	0
371	1	383	1	61	1	0	1
372	4	384	0	45	0	0	0
373	4	385	0	40	0	0	0
374	4	386	1	80	0	0	1
375	4	387	1	85	0	0	0
376	4	388	1	42	1	0	1
377	1	389	0	24	0	0	1
378	1	390	1	65	1	0	0
379	4	391	1	64	0	0	0
380	4	392	1	39	1	1	1
381	4	393	0	45	0	1	0
382	4	394	1	30	0	0	1
383	4	395	1	78	0	1	1

ctry	ldf(3300)	Individual	ldf(330)	turnout(3300)	age	at_elect(33)	polintr(3300)	partymember(33)	minethnic(3300)	sex(3)
3153	21	3213	1	45	0	0	0	0	0	1
3154	21	3214	1	38	0	0	0	0	0	0
3155	21	3215	0	58	1	0	0	0	0	0
3156	21	3216	1	63	1	0	0	0	0	1
3157	21	3217	0	47	0	0	0	0	0	0
3158	21	3218	1	57	1	0	0	0	0	1
3159	21	3219	1	43	0	0	0	0	0	0
3160	21	3220	1	27	1	0	0	0	0	0
3161	21	3222	0	22	1	0	0	0	0	1
3162	21	3223	1	32	0	0	0	0	0	0
3163	21	3224	1	36	1	0	0	0	0	0
3164	22	3226	1	28	0	0	0	0	0	0
3165	22	3226	1	43	0	0	0	0	0	1
3166	22	3227	1	77	1	0	0	0	0	0
3167	22	3228	1	40	1	0	0	0	0	1
3168	22	3230	1	30	0	0	0	0	0	0
3169	22	3231	1	39	1	0	0	0	0	0
3170	22	3232	1	80	0	0	0	0	0	1
3171	22	3233	0	25	0	0	0	0	0	1
3172	22	3234	0	47	0	0	0	0	0	1
3173	22	3235	1	41	1	0	0	0	0	0
3174	22	3236	1	75	0	0	0	0	0	0
3175	22	3237	1	43	1	0	0	0	0	0
3176	22	3238	1	43	0	0	0	0	0	1
3177	22	3239	1	21	1	0	0	0	0	0
3178	22	3240	0	42	0	0	0	0	0	1
3179	22	3241	0	45	0	0	0	0	0	1
3180	22	3242	1	79	1	0	0	0	0	1
3181	22	3243	1	52	0	0	0	0	0	1
3182	22	3244	1	72	1	0	0	0	0	1
3183	22	3246	1	54	0	0	0	0	0	1
3184	22	3246	0	25	0	0	0	0	0	1
3185	22	3247	1	81	1	1	0	0	0	0
3186	22	3248	1	35	0	0	0	0	0	0
3187	22	3249	0	19	0	0	0	0	0	1
3188	22	3250	1	59	1	1	0	0	0	0
3189	22	3251	1	44	0	0	0	0	0	1
3190	22	3252	1	54	1	1	0	0	0	0
3191	22	3253	1	45	0	0	0	0	0	1
3192	22	3254	0	70	0	0	0	0	0	0
3193	22	3255	1	50	0	0	0	0	0	0
3194	22	3256	1	27	0	0	0	0	0	1
3195	22	3257	1	68	1	1	0	0	0	0
3196	22	3258	1	76	0	0	0	0	0	1
3197	22	3259	1	70	0	0	0	0	0	1
3198	22	3260	1	55	0	0	0	0	0	1
3199	22	3261	1	40	0	0	0	0	0	1
3200	22	3262	0	39	0	0	0	0	0	1
3201	22	3263	1	75	1	0	0	0	0	1
3202	22	3264	1	41	0	0	0	0	0	1
3203	22	3265	1	40	1	0	0	0	0	0
3204	22	3266	1	38	1	0	0	0	0	0
3205	22	3267	0	20	0	0	0	0	0	0
3206	22	3268	1	35	1	1	0	0	0	0
3207	22	3269	1	73	1	0	0	0	0	1
3208	22	3270	1	70	1	0	0	0	0	1
3209	22	3271	1	52	1	0	0	0	0	1
3210	22	3272	0	70	0	0	0	0	0	1
3211	22	3273	1	30	0	0	0	0	0	1
3212	22	3274	1	51	0	0	0	0	0	1
3213	22	3275	1	42	0	0	0	0	0	1
3214	22	3276	1	87	0	0	0	0	0	0
3215	22	3277	1	24	0	0	0	0	0	0
3216	22	3278	1	73	1	0	0	0	0	0
...
...

	ctry_id[3300]	individual_id[331]	turnout[3300]	age_at_electi[33]	polintr[3300]	partymember[33]	minethnic[3300]	sex[33]
3269	22	3331	0	23	0	0	1	0
3270	22	3332	1	51	1	0	0	0
3271	22	3333	1	59	1	0	0	1
3272	22	3334	1	53	0	0	0	0
3273	22	3335	1	62	0	0	0	0
3274	22	3336	1	44	1	0	0	1
3275	22	3337	1	27	1	0	0	0
3276	22	3338	0	22	1	0	0	1
3277	22	3339	1	36	0	0	0	1
3278	22	3340	1	55	1	0	0	0
3279	22	3341	1	61	1	0	0	1
3280	22	3342	1	67	1	0	0	0
3281	22	3343	1	37	0	0	0	1
3282	22	3344	0	51	0	0	0	1
3283	22	3345	1	78	1	0	0	1
3284	22	3346	1	61	1	0	0	1
3285	22	3347	1	50	1	0	0	0
3286	22	3348	1	45	1	1	0	0
3287	22	3349	1	39	0	0	0	1
3288	22	3350	1	32	0	0	0	0
3289	22	3351	1	32	0	0	0	0
3290	22	3352	0	18	0	0	0	1
3291	22	3353	1	49	1	0	0	0
3292	22	3354	1	26	0	0	0	1
3293	22	3355	0	24	0	0	0	1
3294	22	3356	0	35	0	0	0	0
3295	22	3357	1	32	0	0	0	0
3296	22	3358	1	48	1	0	0	0
3297	22	3359	1	23	0	0	0	0
3298	22	3360	1	31	1	0	0	0
3299	22	3361	1	26	0	0	0	1
3300	22	3362	0	22	0	0	0	0

Lampiran 3

Output MiwiN untuk analisis data hasil survey mengenai penggunaan hak pilih dalam pemilu di Eropa.

Untuk model regresi logistik 2-Level dengan satu variabel penjelas :

The screenshot shows the MiwiN software interface with the following equations:

$$\text{turnout}_{ij} \sim \text{Binomial}(\text{denom}_{ij}, \pi_{ij})$$

$$\text{logit}(\pi_{ij}) = \beta_0 \text{cons} + 0,013(0,003) \text{age_at_elect}_{ij}$$

$$\beta_{0j} = 1,005(0,183) + u_{0j}$$

$$[u_{0j}] \sim N(0, \Omega_u) : \Omega_u = [0,297(0,109)]$$

$$\text{var}(\text{turnout}_{ij} | \pi_{ij}) = \pi_{ij}(1 - \pi_{ij})/\text{denom}_{ij}$$

Below the equations is a toolbar with buttons: Name, Fonte, +, Add Term, Estimatee (highlighted), Nonlinear, Clear, Notation, Responses, Help.

Untuk model regresi logistik 2-Level dengan lima variabel penjelas :

The screenshot shows the MiwiN software interface with the following equations:

$$\text{turnout}_{ij} \sim \text{Binomial}(\text{denom}_{ij}, \pi_{ij})$$

$$\text{logit}(\pi_{ij}) = \beta_0 \text{cons} + 0,010(0,003) \text{age_at_elect}_{ij} + 1,426(0,112) \text{polintr_1}_{ij} +$$

$$0,988(0,376) \text{partymember_1}_{ij} + -0,522(0,286) \text{minethnic_1}_{ij} +$$

$$0,139(0,099) \text{femalc}_{ij}$$

$$\beta_{0j} = 0,538(0,197) + u_{0j}$$

$$[u_{0j}] \sim N(0, \Omega_u) : \Omega_u = [0,315(0,116)]$$

$$\text{var}(\text{turnout}_{ij} | \pi_{ij}) = \pi_{ij}(1 - \pi_{ij})/\text{denom}_{ij}$$

Below the equations is a toolbar with buttons: Name, Fonte, +, Add Term, Estimatee, Nonlinear, Clear, Notation, Responses, Help.