Child Birth Weight Dataset

Zakir Hussain[1, *], and Malaya Dutta Borah[1]

[1]Department of Computer Science and Engineering, National Institute of Technology Silchar, NIT Road, Cachar, Silchar, 788010, Assam, India

[*]Correspondence to Zakir Hussain, Email: zakir_rs@cse.nits.ac.in or zak08hussain@gmail.com, ORCID: 0000-0001-5606-1556

1. Overview of the dataset

Name of the dataset	: Child birth weight dataset
File name	: CBWDB
File type	: Comma Separated Value (.csv)
No. of columns	: 19
No. of rows	: 1801
No. of instances	: 34219
No. of attributes	: 18
No. of class labels	: 03
Source	: Kazigaon SD, Kokrajhar, Assam, India and Geramari MPHC, Dhubri, Assam, India
Creator	: Zakir Hussain, Research Scholar, NIT Silchar, Assam, India

2. Descriptions of the attributes

SEC	: Socio-Economic Condition
Age(years)	: Age of mother at the time of pregnancy
Height(cm)	: Height of mother at the time of pregnancy
Bgroup	: Blood Group of mother
Parity	: No. of previous pregnancy crossing the period of viability
ANC	: Antenatal Check
Iwt(kg)	: Initial weight of mother
FWt(kg)	: Final weight of mother (Last ANC)
IBP_sys	: Initial systolic Blood Pressure
IBP_dias	: Initial diastolic Blood Pressure
FBP_sys	: Final systolic Blood Pressure (Last ANC)
FBP_dias	: Final diastolic Blood Pressure (last ANC)
IHb(gm%)	: Initial Haemoglobin level
FHb(gm%)	: Final Haemoglobin level (Last ANC)
BS(RBS)	: Blood Sugar (Random)

Term/Preterm	: Term: 37 to 40 weeks, Preterm: <37 weeks
Sex	: Sex of new born baby
BWt(kg)	: Baby birth weight

3. Description of class labels

Class label name	: LNH
L = 1	: Low-weight
N = 2	: Normal-weight
H = 3	: Over-weight

4. Sample image

SEC	Age(years)	Height(cm)	Bgroup	Parity	ANC	Iwt(kg)	FWt(kg)	IBP_sys	IBP_dias	FBP_sys	FBP_dias	IHb(gm%)	FHb(gm%)	BS(RBS)	Term/Preterm	Sex	BWt(kg)	LNH
BPL	23	146	A(+ve)	1	4	34	42	116	78	120	70	10	13.2	90	T	F	2.7	2
BPL	25	165	NIL	1	3	68	71	96	70	110	72	10.4	11	96	T	M	2.9	2
BPL	24	155	B(+ve)	1	3	49	55	91	52	110	70	11	11.6	102	T	M	2.4	1
BPL	19	154	NIL	1	2	49	50	90	52	100	60	10	10.6	103	T	F	2.6	2
BPL	21	150	NIL	1	4	41	48	100	60	110	70	9	10.2	99	T	F	2.3	1
BPL	19	150	O(+VE)	0	4	44	54	100	70	120	80	9	9.8	93	T	F	2.5	2
BPL	15	147	NIL	0	4	37	45	80	50	90	70	8.9	10	97	T	M	2.5	2
BPL	24	153	O(+VE)	1	3	50	59	100	60	110	60	9.5	11	111	PT	M	3	2
BPL	25	142	O(+VE)	2	3	40	48	110	70	120	80	9.5	11.5	82	T	M	2.6	2
BPL	22	150	B(+VE)	1	1	46	57	110	70	110	70	9	10.6	62	T	M	2.2	1
BPL	23	140	NIL	1	3	50	61	110	70	120	70	8.8	9.8	102	PT	M	2.5	2
BPL	22	155	NIL	2	2	51	65	110	70	110	60	9.5	10.1	105	T	F	2.6	2
BPL	37	145	NIL	3	2	50	55	110	70	100	70	8	10.2	84	T	F	2.9	2
BPL	24	147	A(+VE)	2	2	46	56	100	60	100	70	10	12	87	T	M	3.2	2
BPL	27	148	NIL	0	1	58	67	110	70	100	60	9.5	11	121	T	F	3	2
BPL	23	155	B(+VE)	0	1	60	68	100	60	110	70	9	10.4	70	T	M	2.5	2
BPL	30	150	O(+VE)	0	1	60	65	120	80	120	80	8.5	9.8	92	T	F	2.4	1
APL	24	153	NIL	1	4	55	58	100	80	110	80	11	11.8	96	T	F	2.8	2
APL	23	140	NIL	1	4	40	46	100	70	100	80	9.49	11	100	T	F	2.3	1
APL	19	155	NIL	0	4	46	52	100	80	110	80	10.6	11.8	93	PT	M	2.1	1
BPL	22	160	NIL	0	4	48	57	110	90	120	80	11	11.6	127	T	M	3.4	2
APL	26	145	NIL	6	4	60	66	100	60	120	78	10	11.2	104	T	M	3.1	2
APL	20	139	A(+VE)	0	4	39	45	100	60	90	60	11	11.6	95	PT	F	2.6	2
APL	24	159	NIL	2	3	51	53	90	60	100	60	9.4	10.6	97	T	F	2	1
BPL	25	160	NIL	0	4	53	60	105	66	120	70	11	12	101	T	M	2.7	2
BPL	18	153	A(+VE)	0	3	41	46	111	64	100	70	11	11.4	103	T	F	2.8	2
BPL	24	152	NIL	1	3	45	50	96	60	110	70	11	11.6	98	PT	F	2.3	1
BPL	28	150	NIL	2	3	64	67	123	81	120	70	11	11.6	107	PT	F	2.9	2
BPL	18	151	NIL	0	3	44	51	132	87	100	70	11.2	11.6	112	T	M	3	2
APL	24	155	NIL	1	2	71	73	119	72	117	67	11	11	114	T	M	2.6	2
BPL	21	150	NIL	1	2	44	46	120	78	101	60	10.5	11	97	T	M	2.8	2
APL	35	150	NIL	2	2	50	51	120	80	120	80	11	10.2	99	T	F	2.4	1
BPL	26	145	NIL	3	2	47	49	105	74	111	81	11	11	94	PT	M	2.1	1
APL	30	152	NIL	2	2	57	58	100	70	100	80	11	11.4	92	T	F	2.4	1
BPL	18	145	NIL	0	4	40	53	100	70	107	76	9.8	10.8	102	T	M	3	2
BPL	18	150	NIL	0	4	45	56	100	80	100	70	11.6	12	103	PT	F	3.2	2
BPL	25	150	NIL	1	4	63	68	100	70	112	76	10	11.2	104	T	F	3.4	2
BPL	29	147	NIL	1	4	58	66	110	70	112	72	10	11.5	103	T	M	3.2	2
BPL	18	159	NIL	0	4	55	56	110	80	120	80	10.5	11	149	PT	F	3.5	2
BPL	20	140	B(+ve)	1	4	43	52	120	70	121	82	10.5	11.2	94	T	M	2.7	2
APL	23	148	NIL	1	4	45	52	120	78	120	80	10.8	11.2	104	T	F	2.8	2
BPL	21	150	NIL	0	4	48	52	120	78	114	74	11	11.6	96	T	M	2.2	1
BPL	18	152	O(+VE)	0	4	48	53	120	70	110	80	11	11.5	111	PT	F	3	2
BPL	20	140	AB(+ve)	0	4	45	55	110	70	110	80	11	11.8	126	T	M	3.5	2
BPL	25	150	B(+ve)	1	4	38	45	110	70	120	80	10.5	11	112	T	F	2.5	2
BPL	18	152	B(+ve)	0	4	48	55	106	67	120	80	11	11.2	101	T	M	2.5	2

5. Primary research usability

- Machine learning more specifically Supervised learning
- Healthcare specifically dealing with nutritional status and its variety of correlations with infectious diseases, non-infectious diseases, and other abnormalities of body