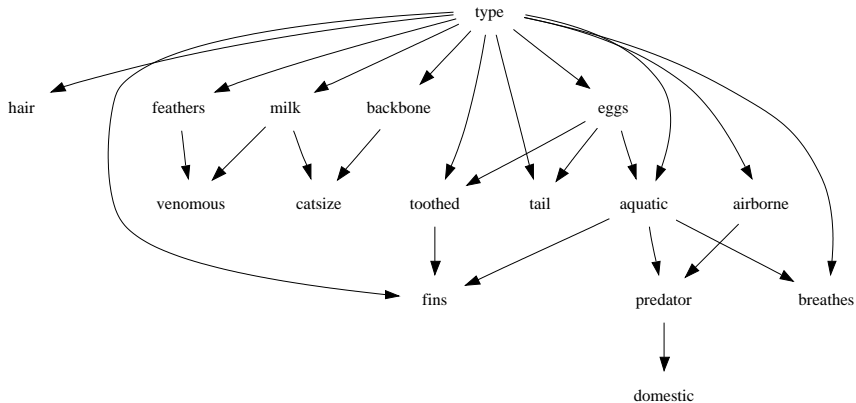


Bayesian Networks - Example - Bayes



Bayesian Networks - Example - Bayes

=== Summary ===

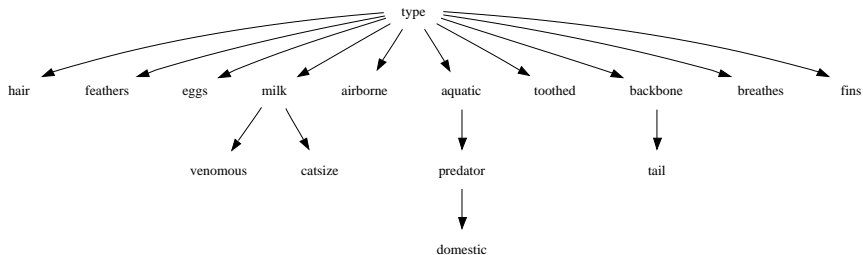
LogScore Bayes: -617.3064606012264
 LogScore MDL: -981.5452630207427
 LogScore ENTROPY: -644.6414652913313
 LogScore AIC: -790.6414652913314

Correctly Classified Instances	96	95.0495 %
Incorrectly Classified Instances	5	4.9505 %
Kappa statistic	0.9348	
Mean absolute error	0.0178	
Root mean squared error	0.0943	
Relative absolute error	8.13 %	
Root relative squared error	28.6128 %	
Total Number of Instances	101	

=== Confusion Matrix ===

a	b	c	d	e	f	g	<-- classified as
41	0	0	0	0	0	0	a = mammal
0	20	0	0	0	0	0	b = bird
0	0	4	0	1	0	0	c = reptile
0	0	0	13	0	0	0	d = fish
0	0	0	0	4	0	0	e = amphibian
0	0	0	0	0	6	2	f = insect
0	0	1	0	0	1	8	g = invertebrate

Bayesian Networks - Example - MDL



Bayesian Networks - Example - MDL

=== Summary ===

LogScore Bayes: -636.4004529447377
 LogScore MDL: -828.374485542587
 LogScore ENTROPY: -629.9243033184126
 LogScore AIC: -715.9243033184126

Correctly Classified Instances	92	91.0891 %
Incorrectly Classified Instances	9	8.9109 %
Kappa statistic	0.8834	
Mean absolute error	0.0313	
Root mean squared error	0.1279	
Relative absolute error	14.3017 %	
Root relative squared error	38.821 %	
Total Number of Instances	101	

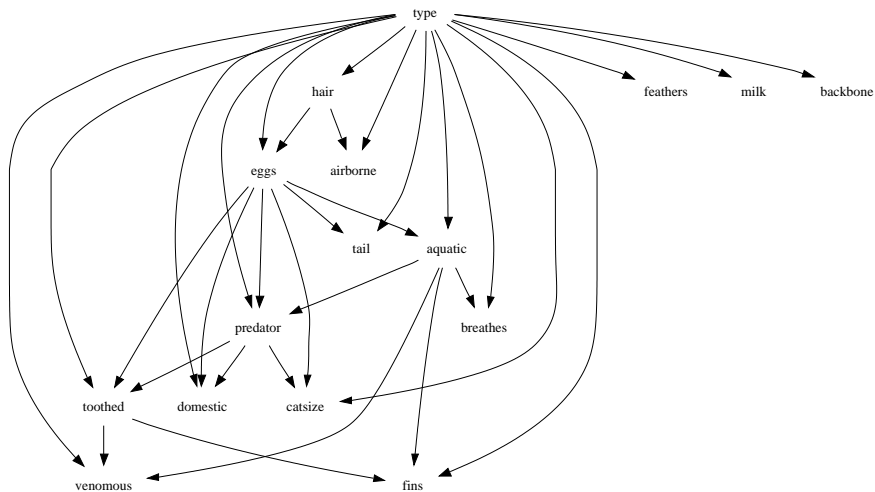
=== Confusion Matrix ===

```

  a  b  c  d  e  f  g  <-- classified as
39  0  1  0  1  0  0 | a = mammal
  0 20  0  0  0  0  0 | b = bird
  0  1  3  1  0  0  0 | c = reptile
  0  0  0 13  0  0  0 | d = fish
  0  0  1  0  3  0  0 | e = amphibian
  0  0  0  0  0  6  2 | f = insect
  0  0  0  0  0  2  8 | g = invertebrate

```

Bayesian Networks - Example - Entropy



Bayesian Networks - Example - Entropy

=== Summary ===

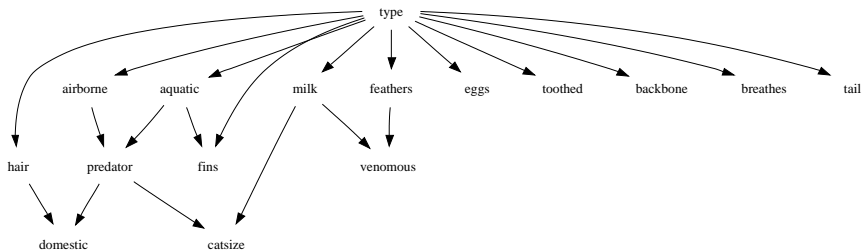
LogScore Bayes: -647.0042479613486
 LogScore MDL: -1302.2750438802946
 LogScore ENTROPY: -723.0774190167174
 LogScore AIC: -974.0774190167166

Correctly Classified Instances	93	92.0792 %
Incorrectly Classified Instances	8	7.9208 %
Kappa statistic	0.8955	
Mean absolute error	0.0224	
Root mean squared error	0.1196	
Relative absolute error	10.2308 %	
Root relative squared error	36.2919 %	
Total Number of Instances	101	

=== Confusion Matrix ===

a	b	c	d	e	f	g	<-- classified as
41	0	0	0	0	0	0	a = mammal
0	20	0	0	0	0	0	b = bird
0	1	3	0	1	0	0	c = reptile
0	0	0	13	0	0	0	d = fish
0	0	0	0	4	0	0	e = amphibian
0	0	0	0	0	5	3	f = insect
0	0	1	0	0	2	7	g = invertebrate

Bayesian Networks - Example - AIC



Bayesian Networks - Example - AIC

=== Summary ===

LogScore Bayes: -627.8399998925489
 LogScore MDL: -870.0113504166138
 LogScore ENTROPY: -625.4099630240268
 LogScore AIC: -731.4099630240269

Correctly Classified Instances	92	91.0891 %
Incorrectly Classified Instances	9	8.9109 %
Kappa statistic	0.8829	
Mean absolute error	0.0208	
Root mean squared error	0.1109	
Relative absolute error	9.4922 %	
Root relative squared error	33.6515 %	
Total Number of Instances	101	

=== Confusion Matrix ===

a	b	c	d	e	f	g	<-- classified as
40	0	0	0	1	0	0	a = mammal
0	20	0	0	0	0	0	b = bird
0	1	3	1	0	0	0	c = reptile
0	0	0	13	0	0	0	d = fish
0	0	1	0	3	0	0	e = amphibian
0	0	0	0	0	6	2	f = insect
0	0	1	0	0	2	7	g = invertebrate