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Zoo Data Set

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Abstract: Artificial, 7 classes of animals



Data Set Characteristics:	Multivariate	Number of Instances:	101	Area:	Life
Attribute Characteristics:	Categorical, Integer	Number of Attributes:	17	Date Donated	1990-05-15
Associated Tasks:	Classification	Missing Values?	No	Number of Web Hits:	269432

Source:

Creator:

Richard Forsyth

Donor:

Richard S. Forsyth
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Data Set Information:

A simple database containing 17 Boolean-valued attributes. The "type" attribute appears to be the class attribute. Here is a breakdown of which animals are in which type: (I find it unusual that there are 2 instances of "frog" and one of "girl"!)

Class# -- Set of animals:

=====

1 -- (41) aardvark, antelope, bear, boar, buffalo, calf, cavy, cheetah, deer, dolphin, elephant, fruitbat, giraffe, girl, goat, gorilla, hamster, hare, leopard, lion, lynx, mink, mole, mongoose, opossum, oryx, platypus, polecat, pony, porpoise, puma, pussycat, raccoon, reindeer, seal, sealion, squirrel, vampire, vole, wallaby, wolf

2 -- (20) chicken, crow, dove, duck, flamingo, gull, hawk, kiwi, lark, ostrich, parakeet, penguin, pheasant, rhea, skimmer, skua, sparrow, swan, vulture, wren

3 -- (5) pitviper, seasnake, slowworm, tortoise, tuatara

4 -- (13) bass, carp, catfish, chub, dogfish, haddock, herring, pike, piranha, seahorse, sole, stingray, tuna

5 -- (4) frog, frog, newt, toad

6 -- (8) flea, gnat, honeybee, housefly, ladybird, moth, termite, wasp

7 -- (10) clam, crab, crayfish, lobster, octopus, scorpion, seawasp, slug, starfish, worm

Attribute Information:

1. animal name: Unique for each instance
2. hair: Boolean
3. feathers: Boolean
4. eggs: Boolean
5. milk: Boolean
6. airborne: Boolean
7. aquatic: Boolean
8. predator: Boolean
9. toothed: Boolean
10. backbone: Boolean
11. breathes: Boolean
12. venomous: Boolean
13. fins: Boolean
14. legs: Numeric (set of values: {0,2,4,5,6,8})
15. tail: Boolean
16. domestic: Boolean
17. catsize: Boolean
18. type: Numeric (integer values in range [1,7])

Relevant Papers:

Forsyth's PC/BEAGLE User's Guide.

Papers That Cite This Data Set¹:



Mikko Koivisto and Kismat Sood. Exact Bayesian Structure Discovery in Bayesian Networks. Journal of Machine Learning Research, 5. 2004. [\[View Context\]](#).

Eibe Frank and Stefan Kramer. Ensembles of nested dichotomies for multi-class problems. ICML. 2004. [\[View Context\]](#).

Yuan Jiang and Zhi-Hua Zhou. Editing Training Data for kNN Classifiers with Neural Network Ensemble. ISNN (1). 2004. [\[View Context\]](#).

Eibe Frank and Mark Hall and Bernhard Pfahringer. Locally Weighted Naive Bayes. UAI. 2003. [\[View Context\]](#).

Huan Liu and Hiroshi Motoda and Lei Yu. Feature Selection with Selective Sampling. ICML. 2002. [\[View Context\]](#).

Michael Bain. Structured Features from Concept Lattices for Unsupervised Learning and Classification. Australian Joint Conference on Artificial Intelligence. 2002. [\[View Context\]](#).

Mukund Deshpande and George Karypis. Using conjunction of attribute values for classification. CIKM. 2002. [\[View Context\]](#).

Neil Davey and Rod Adams and Mary J. George. The Architecture and Performance of a Stochastic Competitive Evolutionary Neural Tree Network. Appl. Intell, 12. 2000. [\[View Context\]](#).

Manoranjan Dash and Huan Liu. Hybrid Search of Feature Subsets. PRICAI. 1998. [\[View Context\]](#).

Gusztai Bartfai. VICTORIA UNIVERSITY OF WELLINGTON Te Whare Wananga o te Upoko o te Ika a Maui. Department of Computer Science PO Box 600. 1996. [\[View Context\]](#).

D. Randall Wilson and Tony R. Martinez. Heterogeneous Radial Basis Function Networks. Proceedings of the International Conference on Neural Networks (ICNN. 1996. [\[View Context\]](#).

Christophe Giraud and Tony Martinez and Christophe G. Giraud-Carrier. University of Bristol Department of Computer

[Science ILA: Combining Inductive Learning with Prior Knowledge and Reasoning](#). 1995. [\[View Context\]](#).

Christophe G. Giraud-Carrier and Tony Martinez. [AN INCREMENTAL LEARNING MODEL FOR COMMONSENSE REASONING](#). Department of Computer Science Brigham Young University. [\[View Context\]](#).

Jun Wang. [Classification Visualization with Shaded Similarity Matrix](#). Bei Yu Les Gasser Graduate School of Library and Information Science University of Illinois at Urbana-Champaign. [\[View Context\]](#).



Mehmet Dalkilic and Arijit Sengupta. [A Logic-theoretic classifier called Circle](#). School of Informatics Center for Genomics and Bioinformatics Indiana University. [\[View Context\]](#).

Alexander K. Seewald. [Dissertation Towards Understanding Stacking Studies of a General Ensemble Learning Scheme ausgeführt zum Zwecke der Erlangung des akademischen Grades eines Doktors der technischen Naturwissenschaften](#). [\[View Context\]](#).

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[1] Papers were automatically harvested and associated with this data set, in collaboration with [Rexa.info](#)

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