# Audiology (Standardized) Data Set(听觉学(标准化) 数据集)

## 数据摘要:

Standardized version of the original audiology dat

## 中文关键词:

机器学习,多变量,分类,UCI,听觉学,

## 英文关键词:

Machine Learning, MultiVarite, Classification, UCI, Audiology,

## 数据格式:

**TEXT** 

## 数据用途:

Classification

## 数据详细介绍:

## **Audiology (Standardized) Data Set**

Abstract: Standardized version of the original audiology database

Data Set Characteristics:	Multivariate	Number of Instances:	226	Area:	Life
Attribute Characteristics:	Categorical	Number of Attributes:	69	Date Donated	1992-08-18
Associated Tasks:	Classification	Missing Values?	Yes	Number of Web Hits:	11448

### Source:

Original Version:

(a) Original Owner: Professor Jergen at Baylor College of Medicine

(b) Donor: Bruce Porter (porter '@' fall.cs.utexas.EDU)

Standardized Version:
(a) Donor: Ross Quinlan

#### **Data Set Information:**

This database is a standardized version of the original audiology database (see audiology.\* in this directory). The non-standard set of attributes have been converted to a standard set of attributes according to the rules that follow.

- \* Each property that appears anywhere in the original .data or .test file has been represented as a separate attribute in this file.
- \* A property such as age\_gt\_60 is represented as a boolean attribute with values f and t.
- \* In most cases, a property of the form x(y) is represented as a discrete attribute x() whose possible values are the various y's; air() is an example. There are two exceptions:
- \*\* when only one value of y appears anywhere, e.g. static(normal). In this case, x\_y appears as a boolean attribute.
- \*\* when one case can have two or more values of x, e.g. history(..). All possible values of

history are treated as separate boolean attributes.

- \* Since boolean attributes only appear as positive conditions, each boolean attribute is assumed to be false unless noted as true. The value of multi-value discrete attributes taken as unknown ("?") unless a value is specified.
- \* The original case identifications, p1 to p200 in the .data file and t1 to t26 in the .test file, have been added as a unique identifier attribute.

[Note: in the original .data file, p165 has a repeated specification of o\_ar\_c(normal); p166 has repeated specification of speech(normal) and conflicting values air(moderate) and air(mild). No other problems with the original data were noted.]

### Attribute Information:

```
age gt 60: f, t.
air(): mild,moderate,severe,normal,profound.
airBoneGap: f, t.
ar c(): normal, elevated, absent.
ar_u(): normal,absent,elevated.
bone(): mild,moderate,normal,unmeasured.
boneAbnormal: f, t.
bser(): normal,degraded.
history_buzzing: f, t.
history_dizziness: f, t.
history_fluctuating: f, t.
history_fullness: f, t.
history_heredity: f, t.
history nausea: f, t.
history_noise: f, t.
history_recruitment: f, t.
history ringing: f, t.
history_roaring: f, t.
history_vomiting: f, t.
late_wave_poor: f, t.
m_at_2k: f, t.
m_cond_lt_1k: f, t.
m_gt_1k: f, t.
m_m_gt_2k: f, t.
m_m_sn: f, t.
m_m_sn_gt_1k: f, t.
m_m_sn_gt_2k: f, t.
m_m_sn_gt_500: f, t.
m_p_sn_gt_2k: f, t.
m_s_gt_500: f, t.
m s sn: f, t.
m_s_sn_gt_1k: f, t.
m_s_sn_gt_2k: f, t.
m_s_sn_gt_3k: f, t.
m_s_sn_gt_4k: f, t.
m_sn_2_3k: f, t.
m_sn_gt_1k: f, t.
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m\_sn\_gt\_2k: f, t. m\_sn\_gt\_3k: f, t.

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m_sn_gt_4k: f, t.
m_sn_gt_500: f, t.
m_sn_gt_6k: f, t.
m_sn_lt_1k: f, t.
m_sn_lt_2k: f, t.
m_sn_lt_3k: f, t.
middle_wave_poor: f, t.
mod_gt_4k: f, t.
mod_mixed: f, t.
mod_s_mixed: f, t.
mod_s_sn_gt_500: f, t.
mod_sn: f, t.
mod_sn_gt_1k: f, t.
mod_sn_gt_2k: f, t.
mod_sn_gt_3k: f, t.
mod_sn_gt_4k: f, t.
mod_sn_gt_500: f, t.
notch_4k: f, t.
notch_at_4k: f, t.
o_ar_c(): normal,elevated,absent.
o_ar_u(): normal,absent,elevated.
s_sn_gt_1k: f, t.
s_sn_gt_2k: f, t.
s_sn_gt_4k: f, t.
speech(): normal,good,very_good,very_poor,poor,unmeasured.
static_normal: f, t.
tymp(): a,as,b,ad,c.
viith_nerve_signs: f, t.
wave_V_delayed: f, t.
waveform_ItoV_prolonged: f, t.
indentifier (unique for each instance)
class:
cochlear unknown, mixed cochlear age fixation, poss central
mixed_cochlear_age_otitis_media,mixed_poss_noise_om,
cochlear_age,normal_ear,cochlear_poss_noise,cochlear_age_and_noise,
acoustic_neuroma,mixed_cochlear_unk_ser_om,conductive_discontinuity,
retrocochlear_unknown,conductive_fixation,bells_palsy,
cochlear_noise_and_heredity,mixed_cochlear_unk_fixation,
otitis_media,possible_menieres,possible_brainstem_disorder,
cochlear_age_plus_poss_menieres,mixed_cochlear_age_s_om,
mixed_cochlear_unk_discontinuity,mixed_poss_central_om
```

### **Relevant Papers:**

Bareiss, E. Ray, & Porter, Bruce (1987). Protos: An Exemplar-Based Learning Apprentice. In the Proceedings of the 4th International Workshop on Machine Learning, 12-23, Irvine, CA: Morgan Kaufmann. [Web Link]

## 数据预览:

```
rmal, f, f, f, normal, t, a, f, f, f, pl, cochlear unknown
1, normal, f, f, f, normal, t, a, f, f, f, p2, cochlear_unknown
f, f, normal, t, as, f, f, f, p3, mixed cochlear age fixation
f, f, normal, t, b, f, f, f, p4, mixed_cochlear_age_otitis media
, normal, f, f, f, good, t, a, f, f, f, p5, cochlear_age
, normal, f, f, f, very_good, t, a, f, f, f, p6, cochlear_age
, normal, f, f, f, good, t, a, f, f, f, p7, cochlear unknown
, normal, f, f, f, very_good, t, a, f, f, f, p8, cochlear_unknown
, f, f, p9, cochlear_unknown
al, absent, f, f, f, good, t, a, f, f, f, p10, cochlear age
, absent, f, f, f, very_good, t, a, f, f, f, p11, cochlear_age
rmal, f, f, f, good, t, a, f, f, f, p12, cochlear_age
normal, normal, f, f, f, very poor, t, a, f, f, f, p13, cochlear unknown
evated, elevated, f, f, f, normal, t, a, f, f, f, p14, normal ear
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, elevated, f, f, f, very_good, t, a, f, f, f, p15, cochlear_age
al, elevated, f, f, f, good, t, a, f, f, f, p16, cochlear_age
, elevated, f, f, f, very good, t, a, f, f, f, p17, cochlear poss noise
al, normal, f, f, f, normal, t, a, f, f, f, p18, cochlear_poss_noise
elevated, f, f, f, normal, t, a, f, f, f, p19, normal_ear
1, normal, f, f, f, normal, t, a, f, f, f, p20, cochlear unknown
rmal, t, f, f, very poor, t, a, f, f, f, p21, cochlear age and noise
rmal, f, t, f, normal, t, a, f, f, f, p22, cochlear_age_and_noise
normal, f, t, f, good, t, a, f, f, f, p23, cochlear_poss_noise
rmal, normal, f, f, f, normal, t, a, f, f, f, p24, normal ear
ormal, normal, f, f, f, very_poor, t, a, f, f, f, p25, cochlear_unknown
rmal, elevated, f, f, f, very_good, t, a, f, f, f, p26, cochlear_unknown
normal, normal, f, f, f, very good, t, a, f, f, f, p27, cochlear unknown
rmal, f, f, t, normal, t, a, f, f, f, p28, cochlear poss noise
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ed, normal, f, f, f, very poor, t, a, f, f, f, p29, acoustic neuroma
nt, absent, f, f, f, normal, t, a, f, f, f, p30, cochlear_unknown
normal, f, f, f, normal, t, a, f, f, f, p31, cochlear poss noise
1, normal, f, f, f, normal, t, a, f, f, f, p32, normal ear
ted, normal, f, f, f, good, t, a, f, f, f, p33, cochlear_unknown
mal, normal, f, f, f, good, t, a, f, f, f, p34, cochlear unknown
sent, normal, f, f, f, very good, t, b, f, f, f, p35, mixed cochlear unk ser om
, absent, f, f, f, normal, t, a, f, f, f, p36, cochlear_unknown
, absent, f, f, f, very_good, t, a, f, f, f, p37, cochlear_age_and_noise
absent, absent, f, f, f, normal, t, a, f, f, f, p38, normal ear
nt, elevated, f, f, f, very_poor, t, ad, f, f, f, p39, conductive_discontinuity
elevated, f, f, f, good, t, a, f, f, f, p40, cochlear_age
1, normal, f, f, f, very good, t, a, f, f, f, p41, cochlear age
absent, absent, f, f, f, normal, t, a, f, f, f, p42, normal ear
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rmal, f, f, f, normal, t, a, f, f, f, p43, cochlear age
d, elevated, f, f, f, normal, t, a, f, f, f, p44, cochlear_unknown
ted, normal, f, f, f, normal, t, a, f, f, f, p45, cochlear unknown
f, moderate, f, absent, absent, moderate, t, ?, t, f, f, t, f, f
f, normal, elevated, f, f, f, very_poor, t, a, f, t, f, p46, retrocochlear_unknown
nt, absent, f, f, f, ?, t, as, f, f, f, p47, conductive_fixation
, elevated, f, f, f, normal, t, a, f, f, f, p48, cochlear unknown
absent, absent, f, f, f, normal, t, a, f, f, f, p49, normal ear
1, elevated, f, t, f, very_poor, f, a, f, f, f, p50, cochlear_age
mal, normal, f, t, f, very_poor, f, a, f, f, f, p51, cochlear_age
1, normal, f, f, f, good, t, a, f, f, f, p52, cochlear age
absent, absent, f, f, f, normal, t, a, f, f, f, p53, normal_ear
absent, elevated, f, f, f, good, t, ad, f, f, f, p54, conductive_discontinuity
ted, elevated, f, f, f, normal, t, a, f, f, f, p55, normal ear
f, elevated, absent, f, f, f, normal, t, a, f, f, f, p56, cochlear unknown
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rmal, f, f, f, good, t, a, f, f, f, p57, cochlear unknown
evated, f, f, f, very_good, f, a, f, f, f, p58, cochlear_age
elevated, f, f, f, poor, t, a, f, f, f, p59, cochlear age
ted, normal, f, f, f, very_good, t, a, f, f, f, p60, cochlear_poss_noise
1, elevated, f, f, f, normal, t, a, f, f, f, p61, cochlear_poss_noise
rmal, f, f, f, good, t, a, f, f, f, p62, cochlear age and noise
rmal, f, f, f, poor, t, a, f, f, f, p63, cochlear age and noise
f, normal, normal, f, f, f, normal, t, a, f, f, f, p64, cochlear_unknown
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