

Package ‘glmpathcr’

January 24, 2024

Type Package

Title Fit a Penalized Continuation Ratio Model for Predicting an Ordinal Response

Version 1.0.10

Date 2024-01-24

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Description

Provides a function for fitting a penalized constrained continuation ratio model using the glm-path algorithm and methods for extracting coefficient estimates, predicted class, class probabilities, and plots as described by Archer and Williams (2012) <[doi:10.1002/sim.4484](https://doi.org/10.1002/sim.4484)>.

License GPL-2

Depends R (>= 4.2.0), glmpath

Suggests tools

BuildResaveData best

LazyLoad yes

NeedsCompilation no

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glmpathcr-package	<i>Fit a Penalized Continuation Ratio Model for Predicting an Ordinal Response: Penalized L1 continuation Ratio Models for Ordinal Response Prediction in High-dimensional Data Settings</i>
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Description

This package provides a function `glmpathcr` for fitting a penalized L1 continuation ratio model for predicting an ordinal response and associated methods for plotting, getting predicted values, estimating coefficients for selected models.

Details

The DESCRIPTION file:

```
Package:          glmpathcr
Type:             Package
Title:            Fit a Penalized Continuation Ratio Model for Predicting an Ordinal Response
Version:          1.0.10
Date:             2024-01-24
Authors@R:        c(person(c("Kellie", "J."), "Archer", email = "archer.43@osu.edu", role = c("aut", "cre"), comment = c(
Maintainer:       Kellie J. Archer <archer.43@osu.edu>
Description:      Provides a function for fitting a penalized constrained continuation ratio model using the glmpath algorithm
License:          GPL-2
Depends:          R (>= 4.2.0), glmpath
Suggests:         tools
BuildResaveData: best
LazyLoad:         yes
NeedsCompilation: no
Author:           Kellie J. Archer [aut, cre] (<https://orcid.org/0000-0003-1555-5781>), Andre Williams [aut]
```

Index of help topics:

```
coef.glmpathcr    Extract All Model Coefficients
diabetes          Gene Expression in Normal, Impaired Fasting
                  Glucose, and Type II Diabetic Males
glmpathcr         Fit Penalized Continuation Ratio Model
glmpathcr-package Fit a Penalized Continuation Ratio Model for
                  Predicting an Ordinal Response: Penalized L1
                  continuation Ratio Models for Ordinal Response
                  Prediction in High-dimensional Data Settings
model.select      Step of Optimal Fitted AIC or BIC CR Model.
nonzero.coef      Extract Non-Zero Model Coefficients
plot.glmpathcr    Plots the Regularization Path Computed from
                  glmpathcr
```

```

predict.glmptchr      Predicted Class and Fitted Probabilities from
                      glmptchr Object
summary.glmptchr     Summarize a glmptchr Object

```

This package contains functions for fitting a penalized continuation ratio model and extracting estimated coefficients, predicted class, and fitted probabilities. The model and methods can be used when the response to be predicted is ordinal, and is particularly relevant when there are more covariates than observations.

Author(s)

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References

Archer K.J., Williams A.A.A. (2012) L1 penalized continuation ratio models for ordinal response prediction using high-dimensional datasets. *Statistics in Medicine*, 31(14), 1464-74.

See Also

See also [glmptch](#)

Examples

```

data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
fit <- glmptchr(x, y)

```

```
coef.glmptchr      Extract All Model Coefficients
```

Description

The coef.glmptchr function returns all estimated coefficients for a glmptchr fitted model, where the model selected is indicated by step s.

Usage

```

## S3 method for class 'glmptchr'
coef(object, s, weight = NULL, eps = .Machine$double.eps, ...)

```

Arguments

object	a <code>glmPathcr</code> object
s	the step at which the coefficient estimates are desired
weight	weights, if any
eps	effective zero
...	additional arguments

Value

A vector of estimated coefficients is returned. The `coef.glmPathcr` function returns all estimated coefficients for a `glmPathcr` fitted model, where the model selected is indicated by step `s`.

Author(s)

Kellie J. Archer, <archer.43@osu.edu>

See Also

See also as [glmPathcr](#), [nonzero.coef](#)

Examples

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
fit <- glmPathcr(x, y)
step <- model.select(fit, which="BIC")
## Not run: coef(fit, s = step)
```

diabetes

Gene Expression in Normal, Impaired Fasting Glucose, and Type II Diabetic Males

Description

Pre-processed gene expression data from Gene Expression Omnibus Series GSE21321. Asymptomatic males not previously diagnosed with Type II diabetes were enrolled and subsequently cross-classified as either normal controls (N=8), having impaired fasting glucose (N=7), or as Type II diabetics (N=9). The gene expression data matrix was filtered to remove probes having negative expression values, leaving 11,066 probes.

Usage

```
data(diabetes)
```

Format

A data frame with 24 observations on the following 11067 variables.

y ordinal class; control < impaired fasting glucose < type 2 diabetes

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ILMN_2415786 expression for the indicating Illumina probe
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 ILMN_2415911 expression for the indicating Illumina probe
 ILMN_2415926 expression for the indicating Illumina probe
 ILMN_2415949 expression for the indicating Illumina probe
 ILMN_2415979 expression for the indicating Illumina probe

Source

<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE21321>

Examples

```
data(diabetes)
attach(diabetes)
table(y)
boxplot(ILMN_1759232~y)
detach()
```

glmpathcr

Fit Penalized Continuation Ratio Model

Description

This function fits a penalized backward (default) or forward continuation ratio model using the glmpath framework.

Usage

```
glmpathcr(x, y, data, method="backward", weight = rep(1, n), offset = rep(0, n),
lambda2 = 1e-05, max.steps = 10 * min(n, m), max.norm = 100 * m,
min.lambda = (if (m >= n) 1e-06 else 0), max.vars = Inf, max.arclength = Inf,
frac.arclength = 1, add.newvars = 1, bshoot.threshold = 0.1, relax.lambda = 1e-08,
standardize = TRUE, function.precision = 3e-13, eps = .Machine$double.eps, trace = FALSE,
nopenalty=NULL)
```

Arguments

x	a matrix of predictor variables
y	ordinal response
data	optional; list that includes x and y components
method	select between fitting a backward (default) versus a forward continuation ratio model
weight	an optional vector of weights for observations

offset	an optional vector of offset. If a column of x is used as offset, the corresponding column must be removed from x
lambda2	regularization parameter for the L2 norm of the coefficients. Default is $1e-5$.
max.steps	an optional bound for the number of steps to be taken. Default is $10 * \min\{\text{nrow}(x), \text{ncol}(x)\}$
max.norm	an optional bound for the L1 norm of the coefficients. Default is $100 * \text{ncol}(x)$
min.lambda	an optional (lower) bound for the size of λ . Default is 0 for $\text{ncol}(x) < \text{nrow}(x)$ cases and $1e-6$ otherwise
max.vars	an optional bound for the number of active variables. Default is Inf
max.arclength	an optional bound for arc length (L1 norm) of a step. If max.arclength is extremely small, an exact nonlinear path is produced. Default is Inf
frac.arclength	Under the default setting, the next step size is computed so that the active set changes right at the next value of λ . When frac.arclength is assigned some fraction between 0 and 1, the step size is decreased by the factor of frac.arclength in arc length. If frac.arclength=0.2, the step length is adjusted so that the active set would change after five smaller steps. Either max.arclength or frac.arclength can be used to force the path to be more accurate. Default is 1.
add.newvars	add.newvars candidate variables (that are currently not in the active set) are used in the corrector step as potential active variables. Default is 1.
bshoot.threshold	If the absolute value of a coefficient is larger than bshoot.threshold at the first corrector step it becomes nonzero (therefore when λ is considered to have been decreased too far), λ is increased again. i.e. A backward distance in λ that makes the coefficient zero is computed. Default is 0.1
relax.lambda	A variable joins the active set if $ \text{II}(\beta) > \lambda * (1 - \text{relax.lambda})$. Default is $1e-8$. If no variable joins the active set even after many (>20) steps, the user should increase relax.lambda to $1e-7$ or $1e-6$, but not more than that. This adjustment is sometimes needed because of the numerical precision/error propagation problems. In general, the paths are less accurate with relaxed lambda.
standardize	If TRUE, predictors are standardized to have a unit variance
function.precision	function.precision parameter used in the internal solver. Default is $3e-13$. The algorithm is faster, but less accurate with relaxed, larger function precision
eps	effective zero
trace	If TRUE, the algorithm prints out its progress
nopenalty	a set of indices for the predictors that are not subject to the L1 penalty

Details

The glmpathcr function is largely borrowed from the **glmpath** package and differs only in that (1) the ordinal dataset is first restructured to represent the $K-1$ conditionally independent likelihoods and (2) the family is specified to be binomial and the nopenalty.subset is specified to be the thresholds for the ordinal classes.

Value

A `glmpathcr` object is returned.

<code>lambda</code>	vector of λ values for which the exact coefficients are computed
<code>lambda2</code>	λ_2 used
<code>step.length</code>	vector of step lengths in λ
<code>core</code>	matrix of $l(\beta)$ values (derivatives of the log-likelihood)
<code>new.df</code>	vector of degrees of freedom (to be used in the plot function)
<code>df</code>	vector of degrees of freedom at each step
<code>deviance</code>	vector of deviance computed at each step
<code>aic</code>	vector of AIC values from fitted logistic regression on restructured data; use summary for AIC from continuation ratio model
<code>bic</code>	vector of BIC values from fitted logistic regression on restructured data; use summary for AIC from continuation ratio model
<code>b.predictor</code>	matrix of coefficient estimates from the predictor steps
<code>b.corrector</code>	matrix of coefficient estimates from the corrector steps
<code>new.A</code>	vector of boolean values indicating the steps at which the active set changed (to be used in the plot/predict functions)
<code>actions</code>	actions taken at each step
<code>means</code>	means of the columns of x
<code>sdx</code>	standard deviations of the columns of x
<code>xnames</code>	column names of x
<code>family</code>	family used
<code>weight</code>	weights used
<code>offset</code>	offset used
<code>nopenalty.subset</code>	<code>nopenalty.subset</code> used
<code>standardize</code>	TRUE if the predictors were standardized before fitting
<code>x</code>	the matrix of predictor variables used in fitting the model
<code>y</code>	the ordinal outcome
<code>method</code>	either forward or backward method

Note

For further details about the fitting algorithm, see the **glmpath** package.

Author(s)

Kellie J. Archer

References

Ralf Bender and Axel Benner (2000) Calculating ordinal regression models in SAS and S-Plus. Biometrical Journal 42, 677–699.

See Also

See also as [predict.glmptcr](#), [coef.glmptcr](#)

Examples

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
fit <- glmptcr(x, y)
```

model.select

Step of Optimal Fitted AIC or BIC CR Model.

Description

This function returns the step number associated with the minimum AIC and BIC models for a `glmptcr` object and so can be used in selecting the step number for calls to functions such as `coef.glmptcr` and `predict.glmptcr`.

Usage

```
model.select(object, which = "BIC")
```

Arguments

<code>object</code>	a <code>glmptcr</code> object
<code>which</code>	determines whether the step is associated with the optimal <code>which="BIC"</code> model or <code>which="AIC"</code> model

Value

A numeric value of length one representing the step number

Author(s)

Kellie J. Archer, <archer.43@osu.edu>

See Also

See also as [coef.glmptcr](#), [predict.glmptcr](#)

Examples

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
fit <- glmpathcr(x, y)
model.select(fit, which="AIC")
```

`nonzero.coef`*Extract Non-Zero Model Coefficients*

Description

The `nonzero.coef` function returns only those non-zero coefficient estimates for a selected model.

Usage

```
nonzero.coef(object, s)
```

Arguments

<code>object</code>	a <code>glmpathcr</code> object
<code>s</code>	the step at which the non-zero coefficient estimates are desired

Value

A vector of estimated coefficients is returned. The `nonzero.coef` function returns only those non-zero coefficient estimates for a selected model.

Author(s)

Kellie J. Archer, <archer.43@osu.edu>

See Also

See also as [glmpathcr](#), [coef.glmpathcr](#)

Examples

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
fit <- glmpathcr(x, y)
step <- model.select(fit, which="BIC")
nonzero.coef(fit, s = step)
```

plot.glmptchr

Plots the Regularization Path Computed from glmptchr

Description

This function takes a `glmptchr` object and visualizes the regularization path. The horizontal axis can be `norm`, `lambda` or `step`. The vertical axis can be `coefficients`, `aic` or `bid`.

Usage

```
## S3 method for class 'glmptchr'
plot(x, xvar = c("norm", "lambda", "step"),
     type = c("coefficients", "aic", "bic"), xlimit = NULL, predictor = FALSE,
     omit.zero = TRUE, breaks = FALSE, mar = NULL, eps = .Machine$double.eps,
     main = NULL, ...)
```

Arguments

<code>x</code>	a <code>glmptchr</code> object
<code>xvar</code>	horizontal axis. <code>xvar=norm</code> plots against the L1 norm of the coefficients (to which L1 norm penalty was applied); <code>xvar=lambda</code> plots against λ ; and <code>xvar=step</code> plots against the number of steps taken. Default is <code>norm</code> .
<code>type</code>	type of the plot, or the vertical axis. Default is <code>coefficients</code> .
<code>xlimit</code>	When the user wants to visualize a (beginning) sub-part of the plot, <code>limit</code> sets an upper limit to the L1 norm or the number of steps, or a lower limit to λ .
<code>predictor</code>	If <code>TRUE</code> and <code>type=coefficients</code> , the predictor step estimates are connected with dotted lines. If <code>FALSE</code> , only the corrector step estimates are connected with solid lines
<code>omit.zero</code>	If <code>TRUE</code> and <code>type=coefficients</code> , the predictors that were never in the active set are omitted.
<code>breaks</code>	If <code>TRUE</code> , vertical lines are drawn at the points where the active set changes and numbered with the degrees of freedom.
<code>mar</code>	margin relative to the current font size
<code>eps</code>	an effective zero
<code>main</code>	title of the plot
<code>...</code>	other options for the plot

Note

This function is essentially the same as `plot.glmptch` from the **glmptch** package by Park and Hastie but was designed to operate on a returned `glmptchr` object.

Author(s)

Mee Young Park and Trevor Hastie; Kellie J. Archer <archer.43@osu.edu> used here for new glmpathcr class

References

Mee Young Park and Trevor Hastie (2007) L1 regularization path algorithm for generalized linear models. J. R. Statist. Soc. B, 69, 659-677.

See Also

See also [glmpathcr](#), [predict.glmpathcr](#)

Examples

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
fit <- glmpathcr(x, y)
plot(fit, xvar="norm")
```

predict.glmpathcr *Predicted Class and Fitted Probabilities from glmpathcr Object*

Description

Returns either the predicted class or the fitted probabilities from the penalized continuation ratio model from a glmpathcr object.

Usage

```
## S3 method for class 'glmpathcr'
predict(object, newx = NULL, which = "BIC", type = "class", ...)
## S3 method for class 'glmpathcr'
fitted(object, newx = NULL, which = "BIC", type = "class", ...)
```

Arguments

object	a glmpathcr object
newx	a data matrix containing the predictor variables, if NULL, the original training data is used for getting model predictions
which	used for model selection, either the default which="BIC" or which="AIC"
type	used for selecting desired output, either the default type="class" or type="probes" for the fitted probabilities
...	additional optional arguments

Value

Either a vector of the predicted class labels or a matrix containing the fitted probabilities is returned.

Author(s)

Kellie J. Archer, <archer.43@osu.edu>

References

Archer K.J., Williams A.A.A. (2012) L1 penalized continuation ratio models for ordinal response prediction using high-dimensional datasets. *Statistics in Medicine*, 31(14), 1464-74.

See Also

See also as [glmptcr](#), [coef.glmptcr](#).

Examples

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
fit <- glmptcr(x, y)
pred <- predict(fit)
table(pred, y)
pred <- predict(fit, which="AIC", type="probs")
```

summary.glmptcr	<i>Summarize a glmptcr Object</i>
-----------------	-----------------------------------

Description

This function summarizes the fits of `glmptcr` over a path and returns a matrix that includes the degrees of freedom, deviance, AIC, and BIC associated with each model fit.

Usage

```
## S3 method for class 'glmptcr'
summary(object, ...)
```

Arguments

object	a glmptcr object
...	additional arguments

Value

A matrix is returned with the following columns corresponding to each model fit (rows):

Df	degrees of freedom at each step
Deviance	deviance computed at each step
AIC	AIC value at each step
BIC	BIC value at each step

Note

This function is essentially the same as `summary.glmptchr` from the **glmptchr** package by Park and Hastie but was designed to operate on a returned `glmptchr` object.

Author(s)

Kellie J. Archer <archer.43@osu.edu>

References

Mee Young Park and Trevor Hastie (2007) L1 regularization path algorithm for generalized linear models. *J. R. Statist. Soc. B*, 69, 659-677.

Archer K.J., Williams A.A.A. (2012) L1 penalized continuation ratio models for ordinal response prediction using high-dimensional datasets. *Statistics in Medicine*, 31(14), 1464-74.

See Also

See Also as [predict.glmptchr](#), [coef.glmptchr](#)

Examples

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
fit <- glmptchr(x, y)
summary(fit)
```


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