

# Package ‘glmnetcr’

October 13, 2022

**Type** Package

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

**Version** 1.0.6

**Date** 2020-07-02

**Author** Kellie J. Archer

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

**Description** Penalized methods are useful for fitting over-parameterized models. This package includes functions for restructuring an ordinal response dataset for fitting continuation ratio models for datasets where the number of covariates exceeds the sample size or when there is collinearity among the covariates. The 'glmnet' fitting algorithm is used to fit the continuation ratio model after data restructuring.

**License** GPL-2

**Depends** R (>= 2.10), glmnet

**Suggests** tools

**BuildResaveData** best

**LazyLoad** yes

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2020-07-03 17:10:06 UTC

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glmnetcr-package	<i>Penalized Constrained Continuation Ratio Models for Ordinal Response Prediction using 'glmnet'</i>
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## Description

This package provides a function `glmnetcr` for fitting penalized constrained continuation ratio models for predicting an ordinal response and associated methods for plotting, printing, extracting predicted classes and probabilities, and extracting estimated coefficients for selected models in the regularization path.

## Details

The DESCRIPTION file:

```

Package:      glmnetcr
Type:         Package
Title:        Fit a Penalized Constrained Continuation Ratio Model for Predicting an Ordinal Response
Version:      1.0.6
Date:         2020-07-02
Author:       Kellie J. Archer
Maintainer:   Kellie J. Archer <archer.43@osu.edu>
Description:  Penalized methods are useful for fitting over-parameterized models. This package includes functions for
License:      GPL-2
Depends:      R (>= 2.10), glmnet
Suggests:    tools
BuildResaveData: best
LazyLoad:    yes

```

Index of help topics:

```

coef.glmnetcr      Extract All Model Coefficients
diabetes           Gene Expression in Normal, Impaired Fasting
                  Glucose, and Type II Diabetic Males
fitted.glmnetcr    AIC, BIC, Predicted Class, and Fitted
                  Probabilities of Class Membership
glmnetcr          Fit a Penalized Constrained Continuation Ratio
                  Model Using Lasso or Elasticnet Regularization
                  Via 'glmnet'
glmnetcr-package  Penalized Constrained Continuation Ratio Models
                  for Ordinal Response Prediction using 'glmnet'

```

nonzero.glmnetcr	Extract Non-Zero Model Coefficients
plot.glmnetcr	Plots the Regularization Path Computed
predict.glmnetcr	AIC, BIC, Predicted Class, and Fitted Probabilities for All Models
print.glmnetcr	Print a 'glmnetcr' Object
select.glmnetcr	Select Step of Optimal Fitted AIC or BIC CR Model

This package contains functions for fitting penalized constrained continuation ratio models 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 [glmnet](#) ~~

### Examples

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
glmnet.fit <- glmnetcr(x, y)
AIC <- select.glmnetcr(glmnet.fit, which="AIC")
fitted(glmnet.fit, s=AIC)
```

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coef.glmnetcr	<i>Extract All Model Coefficients</i>
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### Description

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

### Usage

```
## S3 method for class 'glmnetcr'
coef(object, s, ...)
```

**Arguments**

object            a glmnetcr object  
s                 the step at which the coefficient estimates are desired  
...               additional optional arguments

**Value**

a0                the intercept  
beta              estimated coefficients for the variables and the ordinal thresholds

**Author(s)**

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

**See Also**

See Also as [glmnetcr](#), [nonzero.glmnetcr](#), [select.glmnetcr](#)

**Examples**

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
glmnet.fit <- glmnetcr(x, y)
BIC.model <- select.glmnetcr(glmnet.fit)
estimates <- coef(glmnet.fit, s = BIC.model)
```

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diabetes

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

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**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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### Source

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

### Examples

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

---

fitted.glmnetcr	<i>AIC, BIC, Predicted Class, and Fitted Probabilities of Class Membership</i>
-----------------	--------------------------------------------------------------------------------

---

### Description

For a given step, returns the AIC, BIC, predicted class, and the fitted probabilities for the K classes.

### Usage

```
## S3 method for class 'glmnetcr'
fitted(object, newx = NULL, s, ...)
```

### Arguments

object	a glmnetcr object
newx	a data matrix representing the predictor variables, if missing defaults to original data used in fitting the model
s	the step at which the fitted probabilities and class are desired
...	additional optional arguments

### Value

AIC	AIC at step s
BIC	BIC at step s
class	a vector of length n indicating the predicted class for each observation in newx at step s
probs	a matrix with n rows and K columns indicating the fitted class probabilities for each observation and class in new at step x



**Author(s)**

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

**See Also**

See Also as [predict.glmnetcr](#), [select.glmnetcr](#)

**Examples**

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
glmnet.fit <- glmnetcr(x, y)
fitted(glmnet.fit, s = select.glmnetcr(glmnet.fit))
```

---

glmnetcr

*Fit a Penalized Constrained Continuation Ratio Model Using Lasso or Elasticnet Regularization Via 'glmnet'*

---

**Description**

Fit a constrained continuation ratio model via penalized maximum likelihood. The regularization path is computed for the lasso or elasticnet penalty at a grid of values for the regularization parameter lambda. Can deal with all shapes of data, including very large sparse data matrices.

**Usage**

```
glmnetcr(x, y, method = "backward", weights = NULL, offset = NULL, alpha = 1,
nlambda = 100, lambda.min.ratio = NULL, lambda = NULL, standardize = TRUE,
thresh = 1e-04, exclude = NULL, penalty.factor = NULL, maxit = 100,
dfmax = nvars + 1, pmax = min(dfmax * 2 + 20, nvars),
type.logistic = c("Newton", "modified.Newton"),
trace.it = 0 )
```

**Arguments**

x	input data, of dimension nobs x nvars; each row is an observation vector. Can be in sparse column format (class "dgCMatrix" as in package Matrix)
y	ordinal response variable
method	select between fitting a backward (default) versus a forward continuation ratio model
weights	observation weights. Can be total counts if responses are proportion matrices. Default is 1 for each observation

offset	A vector of length nobs that is included in the linear predictor (a nobs x nvars matrix for the "multinomial" family). Useful for the "poisson" family (e.g. log of exposure time), or for refining a model by starting at a current fit. Default is NULL. If supplied, then values must also be supplied to the predict.glmnet.cr function.
alpha	The elasticnet mixing parameter, with $0 < \alpha \leq 1$ . The penalty is defined as $(1 - \alpha)/2 \ \beta\ _2^2 + \alpha \ \beta\ _1.$ <p>alpha=1 is the lasso penalty.</p>
nlambda	The number of lambda values - default is 100.
lambda.min.ratio	Smallest value for lambda, as a fraction of lambda.max, the (data derived) entry value (i.e. the smallest value for which all coefficients are zero). The default depends on the sample size nobs relative to the number of variables nvars. If nobs > nvars, the default is 0.0001, close to zero. If nobs < nvars, the default is 0.01. A very small value of lambda.min.ratio will lead to a saturated fit in the nobs < nvars case. This is undefined for "binomial" and "multinomial" models, and glmnet will exit gracefully when the percentage deviance explained is almost 1.
lambda	A user supplied lambda sequence. Typical usage is to have the program compute its own lambda sequence based on nlambda and lambda.min.ratio. Supplying a value of lambda overrides this. WARNING: use with care. Do not supply a single value for lambda (for predictions after CV use predict() instead). Supply instead a decreasing sequence of lambda values. glmnet relies on its warm starts for speed, and its often faster to fit a whole path than compute a single fit.
standardize	Logical flag for variable standardization, prior to fitting the model sequence. The coefficients are always returned on the original scale. Default is standardize=TRUE. If variables are in the same units already, you might not wish to standardize.
thresh	Convergence threshold for coordinate descent. Each inner coordinate-descent loop continues until the maximum change in the objective after any coefficient update is less than thresh times the null deviance. Defaults value is 1E-6.
exclude	Indices of variables to be excluded from the model. Default is none. Equivalent to an infinite penalty factor (next item).
penalty.factor	Separate penalty factors can be applied to each coefficient. This is a number that multiplies lambda to allow differential shrinkage. Can be 0 for some variables, which implies no shrinkage, and that variable is always included in the model. Default is 1 for all variables (and implicitly infinity for variables listed in exclude).
maxit	Maximum number of outer-loop iterations for "binomial" or "multinomial" families. Default is 100.
dfmax	Limit the maximum number of variables in the model. Useful for very large nvars, if a partial path is desired.
pmax	Limit the maximum number of variables ever to be nonzero.

<code>type.logistic</code>	If "Newton" then the exact hessian is used (default), while "modified.Newton" uses an upper-bound on the hessian, and can be faster.
<code>trace.it</code>	If <code>trace.it=1</code> , then a progress bar is displayed; useful for big models that take a long time to fit.

### Details

The sequence of models implied by `lambda` is fit by coordinate descent. This is a lasso or elasticnet regularization path for fitting the generalized linear regression paths, by maximizing the appropriate penalized log-likelihood. Sometimes the sequence is truncated before `nlambda` values of `lambda` have been used, because of instabilities in the inverse link functions near a saturated fit. This function invokes `glmnet(..., family="binomial")` which fits a traditional logistic regression model for the log-odds. The penalties take care of redundancies.

### Value

<code>call</code>	the call that produced this object
<code>a0</code>	Intercept sequence of length <code>length(lambda)</code>
<code>beta</code>	a <code>nvars x length(lambda)</code> matrix of coefficients
<code>lambda</code>	The actual sequence of <code>lambda</code> values used
<code>dev</code>	The fraction of (null) deviance explained (for "elnet", this is the R-square). The deviance calculations incorporate weights if present in the model. The deviance is defined to be $-2*(\text{loglike\_sat} - \text{loglike})$ , where <code>loglike_sat</code> is the log-likelihood for the saturated model (a model with a free parameter per observation). Hence <code>dev.fraction=1-dev/nulldev</code> .
<code>nulldev</code>	Null deviance (per observation). This is defined to be $-2*(\text{loglike\_sat} - \text{loglike}(\text{Null}))$ ; The NULL model refers to the intercept model.
<code>df</code>	The number of nonzero coefficients for each value of <code>lambda</code> .
<code>dfmat</code>	Applicable for "multnet" only so does not apply to the CR model. A matrix consisting of the number of nonzero coefficients per class
<code>dim</code>	dimension of coefficient matrix (ices)
<code>nobs</code>	number of observations
<code>npasses</code>	total passes over the data summed over all <code>lambda</code> values
<code>offset</code>	a logical variable indicating whether an offset was included in the model
<code>jerr</code>	error flag, for warnings and errors (largely for internal debugging).
<code>x</code>	returns the original data matrix. Useful for <code>predict</code> and <code>fitted</code> functions
<code>y</code>	returns the original ordinal response. Useful for <code>predict</code> and <code>fitted</code> functions
<code>method</code>	returns the continuation ratio method (forward or backward). Useful for <code>predict</code> and <code>fitted</code> functions

### Note

This function depends heavily upon the `glmnet` function in the **glmnet** package written by Jerome Friedman, Trevor Hastie and Rob Tibshirani

**Author(s)**

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

**See Also**

See Also as [glmnet](#), [select.glmnetcr](#), [fitted.glmnetcr](#)

**Examples**

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
glmnet.fit <- glmnetcr(x, y)
fitted(glmnet.fit, s = select.glmnetcr(glmnet.fit))
```

---

nonzero.glmnetcr      *Extract Non-Zero Model Coefficients*

---

**Description**

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

**Usage**

```
nonzero.glmnetcr(fit, s)
```

**Arguments**

fit	a glmnetcr object
s	the step at which the non-zero coefficient estimates are desired

**Value**

a0	intercept estimate
beta	non-zero estimates for variables and ordinal thresholds

**Author(s)**

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

**See Also**

See Also as [glmnetcr](#), [coef.glmnetcr](#), [select.glmnetcr](#)

**Examples**

```

data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
glmnet.fit <- glmnetcr(x, y)
AIC.step <- select.glmnetcr(glmnet.fit, which = "AIC")
nonzero.glmnetcr(glmnet.fit, s = AIC.step)

```

plot.glmnetcr

*Plots the Regularization Path Computed***Description**

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

**Usage**

```

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

```

**Arguments**

<code>x</code>	a <code>glmnetcr</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 $\lambda$ ; and <code>xvar=step</code> plots against the number of steps taken. Default is "norm".
<code>type</code>	type of the plot, or the vertical axis. Default is "coefficients".
<code>omit.zero</code>	If TRUE and <code>type="coefficients"</code> , the predictors that were never in the active set are omitted.
<code>breaks</code>	If TRUE, 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 was adapted from the `glmpath` package by Park and Hastie for a `glmnetcr` object.

**Author(s)**

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

**See Also**

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

**Examples**

```
library(glmnetcr)
data(diabetes)
x<-diabetes[,2:dim(diabetes)[2]]
y<-diabetes$y
summary(y)
fit<-glmnetcr(x,y)
plot(fit)
plot(fit,xvar="step",type="bic")
```

---

predict.glmnetcr	<i>AIC, BIC, Predicted Class, and Fitted Probabilities for All Models</i>
------------------	---------------------------------------------------------------------------

---

**Description**

Returns the AIC, BIC, predicted class, and the fitted probabilities for the K classes for all steps along the path.

**Usage**

```
## S3 method for class 'glmnetcr'
predict(object, newx = NULL, ...)
```

**Arguments**

object	a glmnetcr object
newx	a data matrix representing the predictor variables, if missing defaults to original data used in fitting the model
...	additional optional arguments

**Value**

AIC	a numeric vector representing the AIC for each step
BIC	a numeric vector representing the BIC for each step
class	a matrix with n rows indicating the predicted class for each observation in newx for each step
probs	an array where for each step, a matrix of n rows and K columns indicates the fitted class probabilities for each observation and class

**Author(s)**

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

**See Also**

See Also as [glmnetcr](#), [fitted.glmnetcr](#)

**Examples**

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
glmnet.fit <- glmnetcr(x, y)
result <- predict(glmnet.fit)
names(result)
```

---

print.glmnetcr	<i>Print a 'glmnetcr' Object</i>
----------------	----------------------------------

---

**Description**

Print a summary of the glmnetcr path at each step along the path.

**Usage**

```
## S3 method for class 'glmnetcr'
print(x, digits = max(3, getOption("digits") - 3), ...)
```

**Arguments**

x	fitted glmnetcr object
digits	significant digits in printout
...	additional print arguments

**Details**

The call that produced the object x is printed, followed by a three-column matrix with columns Df, %dev and Lambda. The Df column is the number of nonzero coefficients (Df is a reasonable name only for lasso fits). %dev is the percent deviance explained (relative to the null deviance).

**Value**

The matrix above is silently returned

**Note**

This function is essentially the same as print.glmnet from the **glmnet** package by but was edited to operate on a returned glmnetcr object.

**Author(s)**

Jerome Friedman, Trevor Hastie and Rob Tibshirani

## References

Friedman, J., Hastie, T. and Tibshirani, R. (2008) *Regularization Paths for Generalized Linear Models via Coordinate Descent*

## See Also

See Also as [glmnetcr](#)

## Examples

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
glmnet.fit <- glmnetcr(x, y)
print(glmnet.fit)
```

---

select.glmnetcr	Select Step of Optimal Fitted AIC or BIC CR Model
-----------------	---------------------------------------------------

---

## Description

This function returns the step number associated with the minimum AIC or BIC models for a `glmnet.cr` object and so can be used in selecting the step number in calls in functions such as `coef.glmnet.cr`, `nonzero.glmnet.cr`, and `fitted.glmnet.cr`

## Usage

```
select.glmnetcr(fit, which = "BIC")
```

## Arguments

fit	a <code>glmnetcr</code> object
which	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.glmnetcr](#), [nonzero.glmnetcr](#), [fitted.glmnetcr](#)



**Examples**

```
data(diabetes)
x <- diabetes[, 2:dim(diabetes)[2]]
y <- diabetes$y
glmnet.fit <- glmnetcr(x, y)
AIC <- select.glmnetcr(glmnet.fit, which = "AIC")
AIC
nonzero.glmnetcr(glmnet.fit, s = AIC)
```

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