# Rcode for probit estimation

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Rcode - Project

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## Indholds for tegnelse

## Contents

1	Probit Estimation									
	1.1	Data and converting to Panel data	1							
	1.2	The probit model estimation	2							
2	Cal	culating predicted probability	20							
	2.1	Selecting variables to present	21							
	2.2	Comparisson of predicted recession and observed recession	22							

#### 1 Probit Estimation

#### 1.1 Data and converting to Panel data

```
# Pakker
library(readxl)
library(tidyverse)
## -- Attaching core tidyverse packages ------ tidyverse 2.0.0 --
## v dplyr
              1.1.3
                        v readr
                                     2.1.4
## v forcats
             1.0.0
                        v stringr
                                     1.5.0
## v ggplot2 3.4.3
                                    3.2.1
                        v tibble
## v lubridate 1.9.2
                        v tidyr
                                    1.3.0
## v purrr
## -- Conflicts -----
                                             ## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
# Indlæs data fra Excel
short_term <- read_excel("/Users/lukasjespersen/Desktop/Kandidat/8.semester/Projekt/data/Yield_2.xlsx",</pre>
long_term <- read_excel("/Users/lukasjespersen/Desktop/Kandidat/8.semester/Projekt/data/Yield_2.xlsx",</pre>
gdp <- read_excel("/Users/lukasjespersen/Desktop/Kandidat/8.semester/Projekt/data/Yield_2.xlsx", sheet =</pre>
## New names:
## * `` -> `...31`
## * `` -> `...32`
## * `` -> `...33`
## * `` -> `...34`
mp_rate <- read_excel("/Users/lukasjespersen/Desktop/Kandidat/8.semester/Projekt/data/Yield_2.xlsx", sh
cpi <- read_excel("/Users/lukasjespersen/Desktop/Kandidat/8.semester/Projekt/data/Yield_2.xlsx", sheet =</pre>
# Konverter wide til long format
short_term_long <- short_term %>%
  pivot_longer(-Time, names_to = "country", values_to = "rate_3m")
long_term_long <- long_term %>%
```

```
pivot_longer(-Time, names_to = "country", values_to = "rate_10y")
gdp_long <- gdp %>%
  pivot_longer(-Time, names_to = "country", values_to = "gdp_growth")
mp_rate_long <- mp_rate %>%
  pivot_longer(-Time, names_to = "country", values_to = "mp_rate")
cpi_long <- cpi %>%
 pivot_longer(-Time, names_to = "country", values_to = "cpi")
# Merge de fem datasæt sammen
df <- short_term_long %>%
 left_join(long_term_long, by = c("Time", "country")) %>%
 left_join(gdp_long, by = c("Time", "country")) %>%
 left_join(mp_rate_long, by = c("Time", "country")) %>%
 left_join(cpi_long, by = c("Time", "country")) %>%
 rename(year = Time) %>%
 arrange(country, year) %>%
 mutate(term_spread = rate_10y - rate_3m,
      recession = ifelse(gdp_growth < 0 & lag(gdp_growth, default = 1) < 0, 1, 0))
# Se de første rækker
head(df)
## # A tibble: 6 x 9
##
                        country rate_3m rate_10y gdp_growth mp_rate
     year
     <dttm>
                         <chr>
                                   <dbl>
                                           <dbl>
                                                      <dbl>
                                                               <dbl> <dbl>
## 1 2000-01-01 00:00:00 Austria
                                   3.54
                                            5.70
                                                    0.00844
                                                               2.2
                                                                     1.58
## 2 2000-04-01 00:00:00 Austria
                                   4.26
                                            5.56
                                                   1.23
                                                               2.8
                                                                     2.11
## 3 2000-07-01 00:00:00 Austria
                                   4.74
                                            5.57
                                                  1.20
                                                               3.33 2.86
## 4 2000-10-01 00:00:00 Austria
                                   5.02
                                            5.39
                                                  0.747
                                                               3.74 2.83
## 5 2001-01-01 00:00:00 Austria
                                   4.75
                                            5.07
                                                   -0.215
                                                               3.75 2.78
## 6 2001-04-01 00:00:00 Austria
                                   4.59
                                            5.26
                                                   -0.229
                                                               3.61 3.08
## # i 2 more variables: term_spread <dbl>, recession <dbl>
```

#### 1.2 The probit model estimation

```
# Load necessary libraries
library(dplyr)

# Konverter recession til en faktorvariabel (binær)
```

```
df$recession <- as.factor(df$recession)</pre>
# Sorter data efter country og year
df <- df %>%
  arrange(country, year) %>%
  group_by(country) %>%
  mutate(term_spread_lag1 = lag(term_spread, 1)) %>% # Opret lagged variabel
  ungroup()
# Funktion til at estimere en probit-model for et enkelt land
run_probit <- function(df) {</pre>
  # Fjern rækker med NA i term_spread_lag4 (da de første 4 observationer for hvert land vil være NA)
  df <- df %>% filter(!is.na(term_spread_lag1))
  model <- glm(recession ~ term_spread + term_spread_lag1 + mp_rate,</pre>
               data = df,
               family = binomial(link = "probit"))
  return(summary(model))
}
# Anvend funktionen på hver gruppe af lande
results <- df %>%
  group_by(country) %>%
  group_split() %>%
 lapply(run_probit)
# Navngiv resultaterne efter land
names(results) <- unique(df$country)</pre>
# Udskriv resultaterne for hvert land
results
## $Austria
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
       family = binomial(link = "probit"), data = df)
##
##
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
                                0.3338 -2.737 0.00620 **
## (Intercept)
                     -0.9136
## term_spread
                      0.9036
                                 0.4574 1.975 0.04821 *
## term_spread_lag1 -1.3076
                                 0.4785 -2.733 0.00628 **
```

```
## mp_rate
                     0.1537
                                0.1222
                                         1.258 0.20847
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 84.215 on 98 degrees of freedom
##
## Residual deviance: 68.259 on 95 degrees of freedom
## AIC: 76.259
##
## Number of Fisher Scoring iterations: 6
##
## $Belgium
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
      family = binomial(link = "probit"), data = df)
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
                   -1.75073
                               0.46277 -3.783 0.000155 ***
## (Intercept)
## term_spread
                    1.30769
                               0.53387
                                         2.449 0.014307 *
## term_spread_lag1 -1.26884
                               0.54243 -2.339 0.019327 *
## mp_rate
                    0.01697
                               0.17158 0.099 0.921204
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 45.269 on 98 degrees of freedom
## Residual deviance: 37.886 on 95 degrees of freedom
## AIC: 45.886
##
## Number of Fisher Scoring iterations: 7
##
##
## $Bulgaria
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
      family = binomial(link = "probit"), data = df)
##
```

```
## Coefficients:
##
                   Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -3.19165
                                1.86021 -1.716
                                                  0.0862 .
## term_spread
                     0.03453
                                1.18265
                                          0.029
                                                  0.9767
## term_spread_lag1 0.98720
                                1.30159
                                          0.758
                                                  0.4482
## mp_rate
                    -2.71892
                                4.62385 -0.588
                                                  0.5565
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 29.528 on 60 degrees of freedom
## Residual deviance: 22.228 on 57 degrees of freedom
##
     (1 observation deleted due to missingness)
## AIC: 30.228
##
## Number of Fisher Scoring iterations: 14
##
##
## $China
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                      Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -6.848e+00 4.902e+04
                                                0
                                                         1
## term_spread
                     5.350e-15 1.783e+04
                                                0
                                                         1
## term_spread_lag1 -3.251e-15 1.792e+04
                                                0
                                                         1
                     7.420e-15 1.217e+04
## mp_rate
                                                0
                                                         1
##
  (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 0.0000e+00 on 42 degrees of freedom
## Residual deviance: 3.2173e-10 on 39 degrees of freedom
## AIC: 8
##
## Number of Fisher Scoring iterations: 24
##
##
## $Croatia
##
```

```
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
                    -1.88459
                                0.56690 -3.324 0.000886 ***
## (Intercept)
## term_spread
                     0.10119
                                0.34379
                                         0.294 0.768497
## term_spread_lag1 0.21933
                                0.31270 0.701 0.483052
## mp_rate
                     0.16500
                                0.08688
                                          1.899 0.057549 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 47.532 on 50 degrees of freedom
## Residual deviance: 42.343 on 47 degrees of freedom
     (6 observations deleted due to missingness)
## AIC: 50.343
##
## Number of Fisher Scoring iterations: 7
##
##
## $Cyprus
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
       family = binomial(link = "probit"), data = df)
##
##
## Coefficients:
##
                     Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -6.702e+00 3.338e+04
## term_spread
                    -9.447e-15 2.411e+04
                                                         1
## term_spread_lag1 3.801e-15 1.536e+04
                                                         1
                                                0
                    -4.910e-15 1.053e+04
## mp_rate
                                                0
                                                         1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 0.0000e+00 on 12 degrees of freedom
## Residual deviance: 2.6718e-10 on 9 degrees of freedom
## AIC: 8
##
## Number of Fisher Scoring iterations: 23
```

```
##
##
## $Czech
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
      family = binomial(link = "probit"), data = df)
##
##
## Coefficients:
##
                   Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -0.8924
                                0.6822 -1.308
                                                 0.1908
## term_spread
                     1.1064
                                0.5120 2.161
                                                0.0307 *
## term_spread_lag1 -1.1889
                                0.5161 -2.304
                                                 0.0212 *
## mp_rate
                    -0.4526
                                0.2900 -1.561
                                                 0.1186
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 50.434 on 97 degrees of freedom
##
## Residual deviance: 38.145 on 94 degrees of freedom
## AIC: 46.145
##
## Number of Fisher Scoring iterations: 9
##
##
## $Denmark
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
      family = binomial(link = "probit"), data = df)
##
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
##
                               0.29218 -4.142 3.44e-05 ***
## (Intercept)
                   -1.21028
## term_spread
                    0.35033
                               0.46526
                                        0.753
                                                0.4515
## term_spread_lag1 -0.95538
                               0.47800 -1.999
                                                 0.0456 *
## mp_rate
                    0.03868
                               0.10356
                                         0.373
                                                 0.7088
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
```

```
##
      Null deviance: 60.318 on 98 degrees of freedom
## Residual deviance: 49.405 on 95 degrees of freedom
## AIC: 57.405
##
## Number of Fisher Scoring iterations: 7
##
##
## $Estonia
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                     Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                     -11.726 19949.573 -0.001
                                                    1.000
## term_spread
                     -38.328 42475.389 -0.001
                                                    0.999
## term_spread_lag1
                       43.896 44648.647
                                           0.001
                                                    0.999
## mp rate
                        3.104
                                5935.086
                                           0.001
                                                    1.000
##
  (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 2.3035e+01 on 16 degrees of freedom
## Residual deviance: 4.2655e-10 on 13 degrees of freedom
## AIC: 8
##
## Number of Fisher Scoring iterations: 25
##
##
## $Finland
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
       family = binomial(link = "probit"), data = df)
##
##
## Coefficients:
                    Estimate Std. Error z value Pr(>|z|)
##
                    -0.7400
                                0.2976 -2.486
## (Intercept)
                                                  0.0129 *
## term_spread
                     0.3910
                                 0.4239
                                        0.922
                                                  0.3563
## term_spread_lag1 -0.6093
                                 0.4265 - 1.429
                                                  0.1531
## mp_rate
                     -0.1669
                                 0.1237 -1.349
                                                  0.1772
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 80.689 on 98 degrees of freedom
## Residual deviance: 76.924 on 95 degrees of freedom
## AIC: 84.924
## Number of Fisher Scoring iterations: 5
##
##
## $France
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
                    Estimate Std. Error z value Pr(>|z|)
                                0.5556 -0.711
                     -0.3950
## (Intercept)
                                                  0.4772
## term_spread
                     0.4298
                                0.6589 0.652
                                                  0.5142
## term_spread_lag1 -2.6470
                                1.1077 -2.390
                                                  0.0169 *
                     -0.5564
## mp_rate
                                0.3488 -1.595
                                                  0.1107
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 39.600 on 98 degrees of freedom
## Residual deviance: 23.801 on 95 degrees of freedom
## AIC: 31.801
## Number of Fisher Scoring iterations: 10
##
##
## $Germany
##
## Call:
  glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
                                0.3159 -4.582 4.6e-06 ***
                     -1.4476
## (Intercept)
```

```
## term_spread
                     0.9780
                                0.4599
                                         2.127
                                                 0.0335 *
## term_spread_lag1 -0.9878
                                0.4604 -2.145
                                                 0.0319 *
## mp_rate
                     0.1671
                                0.1335
                                         1.252
                                                 0.2107
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 69.069 on 98 degrees of freedom
## Residual deviance: 62.212 on 95 degrees of freedom
## AIC: 70.212
##
## Number of Fisher Scoring iterations: 5
##
##
## $Greece
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
##
                   -1.70046
## (Intercept)
                               0.33936 -5.011 5.42e-07 ***
## term_spread
                    0.22170
                               0.11690
                                        1.896
                                                 0.0579 .
## term_spread_lag1 -0.05213
                               0.10645 -0.490
                                                 0.6243
## mp_rate
                   -0.03636
                               0.15067 -0.241
                                                 0.8093
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 102.317 on 98 degrees of freedom
## Residual deviance: 70.436 on 95 degrees of freedom
## AIC: 78.436
##
## Number of Fisher Scoring iterations: 6
##
##
## $Hungary
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
```

```
##
      family = binomial(link = "probit"), data = df)
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
##
## (Intercept)
                   -1.67210
                               0.71497 -2.339
                                                 0.0194 *
## term_spread
                   -0.19509
                               0.20250 -0.963
                                                 0.3353
## term_spread_lag1 0.11633
                               0.17391
                                         0.669
                                                 0.5036
## mp_rate
                    0.04107
                               0.11236
                                       0.366
                                                 0.7147
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 60.318 on 98 degrees of freedom
## Residual deviance: 55.335 on 95 degrees of freedom
## AIC: 63.335
##
## Number of Fisher Scoring iterations: 6
##
##
## $Ireland
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
      family = binomial(link = "probit"), data = df)
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
##
                                0.4205 -4.441 8.95e-06 ***
## (Intercept)
                    -1.8673
## term_spread
                     0.4088
                                0.2696
                                         1.516 0.12942
## term_spread_lag1 -0.3660
                                0.2857 -1.281 0.20019
## mp_rate
                     0.4174
                                0.1512 2.760 0.00579 **
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 73.128 on 98 degrees of freedom
## Residual deviance: 60.744 on 95 degrees of freedom
## AIC: 68.744
##
## Number of Fisher Scoring iterations: 7
##
```

```
##
## $Italy
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
      family = binomial(link = "probit"), data = df)
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
                                0.5288 -4.337 1.44e-05 ***
## (Intercept)
                    -2.2936
## term_spread
                     1.2756
                                0.3791 3.365 0.000765 ***
## term_spread_lag1 -0.7481
                                0.3478 -2.151 0.031457 *
## mp_rate
                     0.2741
                                0.1601 1.712 0.086889 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 99.632 on 98 degrees of freedom
## Residual deviance: 80.365 on 95 degrees of freedom
## AIC: 88.365
##
## Number of Fisher Scoring iterations: 6
##
##
## $Latvia
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
      family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                   Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                   -0.14458
                               0.60638 -0.238
                                                 0.8115
## term_spread
                   -0.23130
                               0.12523 -1.847
                                                 0.0648 .
## term_spread_lag1 0.07984
                               0.12057
                                         0.662
                                                 0.5079
## mp_rate
                   -0.11959
                               0.12606 -0.949
                                                 0.3428
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 75.846 on 94 degrees of freedom
```

```
## Residual deviance: 67.455 on 91 degrees of freedom
## AIC: 75.455
##
## Number of Fisher Scoring iterations: 5
##
##
## $Lithuania
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -1.69486
                                0.37606 -4.507 6.58e-06 ***
## term_spread
                     0.55852
                                0.38288
                                          1.459
                                                   0.145
## term_spread_lag1 -0.54077
                                0.38957 -1.388
                                                   0.165
## mp_rate
                    -0.02209
                                0.10270 -0.215
                                                   0.830
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 39.176 on 94 degrees of freedom
## Residual deviance: 32.472 on 91 degrees of freedom
## AIC: 40.472
##
## Number of Fisher Scoring iterations: 8
##
##
## $Luxembourg
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                     -1.4840
                                 0.3590 -4.133 3.57e-05 ***
                                                  0.0285 *
## term_spread
                      0.9544
                                 0.4357
                                          2.190
## term_spread_lag1 -1.1570
                                 0.4888 -2.367
                                                  0.0179 *
## mp_rate
                      0.1638
                                 0.1404
                                          1.167
                                                  0.2434
## ---
```

```
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 60.318 on 98 degrees of freedom
## Residual deviance: 51.596 on 95 degrees of freedom
## AIC: 59.596
##
## Number of Fisher Scoring iterations: 6
##
##
## $Malta
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
##
## (Intercept)
                    -3.3361
                                1.3519 -2.468 0.0136 *
## term_spread
                    -0.6707
                                1.0392 -0.645
                                                0.5187
## term_spread_lag1
                    1.0745
                                1.1311
                                         0.950
                                                 0.3421
## mp_rate
                     0.3455
                                0.2513 1.375
                                                 0.1692
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 26.636 on 94 degrees of freedom
## Residual deviance: 23.258 on 91 degrees of freedom
## AIC: 31.258
##
## Number of Fisher Scoring iterations: 9
##
##
## $Netherlands
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
       family = binomial(link = "probit"), data = df)
##
##
## Coefficients:
##
                   Estimate Std. Error z value Pr(>|z|)
```

```
## (Intercept)
                   -0.98873
                               0.28521 -3.467 0.000527 ***
## term_spread
                     0.16173
                               0.41035
                                         0.394 0.693484
## term_spread_lag1 -0.22391
                               0.40442 -0.554 0.579819
## mp rate
                     0.01463
                               0.11643
                                         0.126 0.900001
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 84.215 on 98 degrees of freedom
## Residual deviance: 83.767 on 95 degrees of freedom
## AIC: 91.767
##
## Number of Fisher Scoring iterations: 5
##
## $Poland
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
                               1.31125 -0.173
## (Intercept)
                   -0.22639
                                                   0.863
## term_spread
                   -0.04867
                               1.12672 -0.043
                                                   0.966
## term_spread_lag1 -1.28449
                               0.98211 -1.308
                                                   0.191
                   -0.53463
                               0.35650 -1.500
## mp_rate
                                                   0.134
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 19.4005 on 94 degrees of freedom
## Residual deviance: 9.8235 on 91 degrees of freedom
## AIC: 17.823
## Number of Fisher Scoring iterations: 10
##
##
## $Portugal
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
      family = binomial(link = "probit"), data = df)
##
```

```
##
## Coefficients:
##
                   Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -2.6018
                                0.4867 -5.345 9.03e-08 ***
## term spread
                     0.7107
                                0.2762 2.573 0.01007 *
## term_spread_lag1 -0.3539
                                0.2493 -1.419 0.15582
## mp_rate
                     0.4642
                                0.1729
                                         2.685 0.00725 **
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 84.215 on 98 degrees of freedom
## Residual deviance: 56.466 on 95 degrees of freedom
## AIC: 64.466
##
## Number of Fisher Scoring iterations: 6
##
##
## $Romania
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                   Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -1.2705
                                                   0.333
                                1.3121 -0.968
## term_spread
                     0.1589
                                0.4560 0.348
                                                   0.728
## term_spread_lag1 -0.1194
                                0.3985 -0.300
                                                   0.764
                                0.1997 -0.721
## mp_rate
                    -0.1440
                                                   0.471
##
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 25.432 on 77 degrees of freedom
## Residual deviance: 23.449 on 74 degrees of freedom
## AIC: 31.449
##
## Number of Fisher Scoring iterations: 8
##
##
## $Slovakia
##
```

```
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
      family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -30.4843 1022.0477 -0.030
                                                  0.976
## term_spread
                      1.8465
                                1.9360
                                         0.954
                                                  0.340
## term_spread_lag1
                      0.3088
                                4.0016
                                         0.077
                                                  0.938
## mp_rate
                    -55.9381 2044.0721 -0.027
                                                  0.978
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 19.4847 on 96 degrees of freedom
## Residual deviance: 5.8254 on 93 degrees of freedom
## AIC: 13.825
##
## Number of Fisher Scoring iterations: 25
##
##
## $Slovenia
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
      family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
                   ## (Intercept)
## term_spread
                                         2.721 0.00652 **
                    1.031187 0.379028
## term_spread_lag1 -0.928967
                              0.414296 -2.242 0.02494 *
## mp_rate
                   -0.007516
                             0.191770 -0.039 0.96874
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 44.087 on 89 degrees of freedom
## Residual deviance: 35.148 on 86 degrees of freedom
## AIC: 43.148
##
## Number of Fisher Scoring iterations: 7
##
```

```
##
## $Spain
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -3.0467
                                0.6075 -5.015 5.31e-07 ***
## term_spread
                     1.4002
                                0.4531
                                         3.090
                                                  0.002 **
## term_spread_lag1 -0.6346
                                0.3966 -1.600
                                                  0.110
## mp_rate
                     0.2446
                                0.2211
                                         1.106
                                                  0.269
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 80.689 on 98 degrees of freedom
## Residual deviance: 45.822 on 95 degrees of freedom
## AIC: 53.822
##
## Number of Fisher Scoring iterations: 7
##
##
## $Sweden
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
       family = binomial(link = "probit"), data = df)
##
## Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
                                 4.671 -2.048 0.0405 *
## (Intercept)
                     -9.567
                                 1.703 2.195
                                                 0.0282 *
## term_spread
                      3.738
## term_spread_lag1
                                 1.720 - 2.272
                     -3.909
                                                 0.0231 *
## mp_rate
                      2.076
                                 1.131
                                                 0.0664 .
                                        1.836
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 33.507 on 98 degrees of freedom
```

```
## Residual deviance: 14.759 on 95 degrees of freedom
## AIC: 22.759
##
## Number of Fisher Scoring iterations: 12
##
##
## $USA
##
## Call:
## glm(formula = recession ~ term_spread + term_spread_lag1 + mp_rate,
##
      family = binomial(link = "probit"), data = df)
##
## Coefficients:
##
                   Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                   -0.03215
                               0.82477 -0.039
## term_spread
                    1.20009
                               0.81677 1.469
                                                 0.1417
## term_spread_lag1 -2.23663
                               0.90517 -2.471 0.0135 *
## mp_rate
                   -1.20835
                               0.61053 -1.979
                                               0.0478 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 33.507 on 98 degrees of freedom
## Residual deviance: 16.229 on 95 degrees of freedom
## AIC: 24.229
##
## Number of Fisher Scoring iterations: 11
```

## 2 Calculating predicted probability

```
# Load necessary libraries
library(dplyr)
# Konverter recession til en faktorvariabel (binær)
df$recession <- as.factor(df$recession)</pre>
# Sorter data efter country og year
df <- df %>%
  arrange(country, year) %>%
  group_by(country) %>%
  mutate(term_spread_lag1 = lag(term_spread, 1)) %>% # Opret lagged variabel
  ungroup()
# Funktion til at estimere en probit-model for et enkelt land og udregne de predikerede sandsynligheder
run_probit <- function(df) {</pre>
  # Fjern rækker med NA i term_spread_lag1 (da de første observationer for hvert land vil være NA)
  df_filtered <- df %>% filter(!is.na(term_spread_lag1))
  # Estimer probit-modellen
  model <- glm(recession ~ term_spread + term_spread_lag1 + mp_rate,</pre>
               data = df_filtered,
               family = binomial(link = "probit"))
  # Beregn de predikerede sandsynligheder for det specifikke land
  df$predicted_prob <- predict(model, newdata = df, type = "response")</pre>
  # Runder de predikerede sandsynligheder til 4 decimaler
  df$predicted_prob <- round(df$predicted_prob, 4)</pre>
  # Opret en ny variabel "Predicted_Y", som angiver om modellen forudsiger recession
  df$Predicted_Y <- ifelse(df$predicted_prob > 0.3, 1, 0)
 return(df)
}
# Anvend funktionen på hver gruppe af lande og gem de predikerede sandsynligheder og den nye variabel
df_with_preds <- df %>%
  group_by(country) %>%
  group_split() %>%
 lapply(function(group_df) {
```

```
run_probit(group_df) # Kald run_probit for hvert land
  }) %>%
  bind_rows() # Kombiner resultaterne til ét dataframe
# Se på de første rækker af resultatet
df_with_preds
## # A tibble: 2,900 x 12
##
      year
                          country rate_3m rate_10y gdp_growth mp_rate
                                                                        cpi
                          <chr>
                                    <dbl>
                                             <dbl>
                                                        <dbl>
##
      <dttm>
                                                                <dbl> <dbl>
   1 2000-01-01 00:00:00 Austria
                                              5.70
                                                                 2.2
                                                                       1.58
                                     3.54
                                                      0.00844
   2 2000-04-01 00:00:00 Austria
                                     4.26
                                              5.56
                                                      1.23
                                                                 2.8
                                                                       2.11
  3 2000-07-01 00:00:00 Austria
##
                                     4.74
                                              5.57
                                                      1.20
                                                                 3.33 2.86
  4 2000-10-01 00:00:00 Austria
                                     5.02
                                              5.39
                                                      0.747
                                                                 3.74 2.83
##
## 5 2001-01-01 00:00:00 Austria
                                     4.75
                                              5.07
                                                                 3.75 2.78
                                                    -0.215
## 6 2001-04-01 00:00:00 Austria
                                     4.59
                                              5.26
                                                    -0.229
                                                                 3.61 3.08
  7 2001-07-01 00:00:00 Austria
                                     4.27
                                              5.16
                                                      0.228
                                                                 3.35 2.61
## 8 2001-10-01 00:00:00 Austria
                                                                 2.46 2.14
                                     3.44
                                              4.84
                                                      0.401
## 9 2002-01-01 00:00:00 Austria
                                     3.36
                                              5.18
                                                      1.11
                                                                 2.25 1.97
## 10 2002-04-01 00:00:00 Austria
                                     3.45
                                              5.31
                                                      0.0912
                                                                 2.25 1.79
## # i 2,890 more rows
## # i 5 more variables: term spread <dbl>, recession <fct>,
```

term\_spread\_lag1 <dbl>, predicted\_prob <dbl>, Predicted\_Y <dbl>

#### 2.1 Selecting variables to present

## #

```
df_selected <- df_with_preds %>%
    select(year, country, recession, predicted_prob, Predicted_Y)

df_selected
```

```
## # A tibble: 2,900 x 5
##
                          country recession predicted_prob Predicted_Y
      year
##
      <dttm>
                                                      <dbl>
                                                                  <dbl>
   1 2000-01-01 00:00:00 Austria 0
                                                    NA
##
                                                                     NA
   2 2000-04-01 00:00:00 Austria 0
                                                     0.0161
##
                                                                      0
  3 2000-07-01 00:00:00 Austria 0
                                                     0.0901
                                                                      0
  4 2000-10-01 00:00:00 Austria 0
                                                     0.138
                                                                      0
##
  5 2001-01-01 00:00:00 Austria 0
                                                     0.299
                                                                      0
##
   6 2001-04-01 00:00:00 Austria 1
                                                     0.429
## 7 2001-07-01 00:00:00 Austria 0
                                                     0.319
                                                                      1
```

```
## 8 2001-10-01 00:00:00 Austria 0 0.330 1
## 9 2002-01-01 00:00:00 Austria 0 0.228 0
## 10 2002-04-01 00:00:00 Austria 0 0.104 0
## # i 2,890 more rows
```

#### 2.2 Comparisson of predicted recession and observed recession

All the data is shown here. In the project file you can see analysis of two countries.

```
options(tibble.print_max = Inf)
# Vælq de relevante kolonner
df_selected <- df_with_preds %>%
  select(year, country, recession, predicted_prob, Predicted_Y)
# Opdel dataene i separate tabeller baseret på country
results_by_country <- df_selected %>%
  group_by(country) %>%
  group_split()
# Navngiv tabellerne efter landene
names(results_by_country) <- unique(df_selected$country)</pre>
# Udskriv resultatet for et specifikt land, fx Danmark
results_by_country
## <list_of<
##
     tbl_df<
                      : datetime<UTC>
##
       year
##
       country
                     : character
##
       recession
                     : factor<8fa51>
##
       predicted_prob: double
```

```
##
       Predicted Y
                      : double
     >
##
## >[29]>
## $Austria
## # A tibble: 100 x 5
                            country recession predicted_prob Predicted_Y
##
       year
       <dttm>
                            <chr>
                                    <fct>
                                                         <dbl>
                                                                     <dbl>
##
     1 2000-01-01 00:00:00 Austria 0
##
                                                      NA
                                                                        NA
##
     2 2000-04-01 00:00:00 Austria 0
                                                       0.0161
                                                                         0
     3 2000-07-01 00:00:00 Austria 0
                                                       0.0901
                                                                         0
##
     4 2000-10-01 00:00:00 Austria 0
                                                       0.138
                                                                         0
##
```

##	_	2001-01-01	00.00.00	Anatais	0	0.000	^
##		2001-01-01 2001-04-01				0.299	0
	_	2001-04-01			_	0.319	
##		2001-07-01				0.330	1
##		2001-10-01				0.228	0
##		2002-01-01				0.104	0
##		2002 04 01 2002-07-01				0.0444	0
##		2002-07-01				0.122	0
##		2002-10-01				0.0993	0
##		2003 01 01 2003-04-01				0.129	0
##		2003 04 01 2003-07-01				0.168	0
##		2003 07 01 2003-10-01				0.0799	0
##		2003 10 01				0.0391	0
##		2004-01-01				0.0686	0
##		2004-07-01				0.0323	0
##		2004-07-01				0.0244	0
##		2005-01-01				0.055	0
##		2005-04-01				0.0617	0
##		2005-07-01				0.0787	0
##		2005-10-01				0.105	0
##		2006-01-01				0.104	0
##		2006-04-01				0.206	0
##		2006-07-01				0.076	0
##		2006-10-01				0.0976	0
##		2007-01-01				0.278	0
##		2007-04-01				0.313	1
##		2007-07-01				0.175	0
##	32	2007-10-01	00:00:00	Austria	0	0.233	0
##	33	2008-01-01	00:00:00	Austria	0	0.422	1
##	34	2008-04-01	00:00:00	Austria	0	0.363	1
##	35	2008-07-01	00:00:00	Austria	1	0.357	1
##	36	2008-10-01	00:00:00	Austria	1	0.493	1
##	37	2009-01-01	00:00:00	Austria	1	0.896	1
##	38	2009-04-01	00:00:00	Austria	1	0.144	0
##	39	2009-07-01	00:00:00	Austria	0	0.0286	0
##	40	2009-10-01	00:00:00	Austria	0	0.0156	0
##	41	2010-01-01	00:00:00	Austria	1	0.0246	0
##	42	2010-04-01	00:00:00	Austria	0	0.0075	0
##	43	2010-07-01	00:00:00	Austria	0	0.0069	0
##	44	2010-10-01	00:00:00	Austria	0	0.0517	0
##	45	2011-01-01	00:00:00	Austria	0	0.0994	0
##	46	2011-04-01	00:00:00	Austria	0	0.0136	0
##	47	2011-07-01	00:00:00	Austria	0	0.0086	0

##	48	2011-10-01	00:00:00	Austria	0	0.123	0
##	49	2012-01-01	00:00:00	Austria	0	0.116	0
##	50	2012-04-01	00:00:00	Austria	0	0.0334	0
##	51	2012-07-01	00:00:00	Austria	0	0.0353	0
##	52	2012-10-01	00:00:00	Austria	0	0.0578	0
##	53	2013-01-01	00:00:00	Austria	1	0.054	0
##	54	2013-04-01	00:00:00	Austria	0	0.0501	0
##	55	2013-07-01	00:00:00	Austria	0	0.112	0
##	56	2013-10-01	00:00:00	Austria	0	0.0371	0
##	57	2014-01-01	00:00:00	Austria	0	0.03	0
##	58	2014-04-01	00:00:00	Austria	0	0.0303	0
##	59	2014-07-01	00:00:00	Austria	0	0.0453	0
##	60	2014-10-01	00:00:00	Austria	0	0.0484	0
##	61	2015-01-01	00:00:00	Austria	0	0.0417	0
##	62	2015-04-01	00:00:00	Austria	0	0.200	0
##	63	2015-07-01	00:00:00	Austria	0	0.177	0
##	64	2015-10-01	00:00:00	Austria	0	0.0719	0
##	65	2016-01-01	00:00:00	Austria	0	0.0696	0
##	66	2016-04-01	00:00:00	Austria	0	0.0771	0
##	67	2016-07-01	00:00:00	Austria	0	0.0828	0
##	68	2016-10-01	00:00:00	Austria	0	0.189	0
##	69	2017-01-01	00:00:00	Austria	0	0.133	0
##	70	2017-04-01	00:00:00	Austria	0	0.0871	0
##	71	2017-07-01	00:00:00	Austria	0	0.102	0
##	72	2017-10-01	00:00:00	Austria	0	0.0722	0
##	73	2018-01-01	00:00:00	Austria	0	0.132	0
##	74	2018-04-01	00:00:00	Austria	0	0.0736	0
##	75	2018-07-01	00:00:00	Austria	0	0.0638	0
##	76	2018-10-01	00:00:00	Austria	0	0.0857	0
##	77	2019-01-01	00:00:00	Austria	0	0.0643	0
##	78	2019-04-01	00:00:00	Austria	0	0.0702	0
##	79	2019-07-01	00:00:00	Austria	0	0.0641	0
##	80	2019-10-01	00:00:00	Austria	0	0.183	0
##	81	2020-01-01	00:00:00	Austria	1	0.127	0
##	82	2020-04-01	00:00:00	Austria	1	0.133	0
##	83	2020-07-01	00:00:00	Austria	0	0.129	0
##	84	2020-10-01	00:00:00	Austria	0	0.128	0
##	85	2021-01-01	00:00:00	Austria	1	0.197	0
##	86	2021-04-01	00:00:00	Austria	0	0.186	0
##	87	2021-07-01	00:00:00	Austria	0	0.0868	0
##	88	2021-10-01	00:00:00	Austria	0	0.160	0
##	89	2022-01-01	00:00:00	Austria	0	0.203	0
##	90	2022-04-01	00:00:00	Austria	0	0.304	1

##		2022-07-01				0.0143	0
##		2022-10-01				0.0432	0
##		2023-01-01				0.0577	0
##		2023-04-01				0.123	0
##		2023-07-01				0.327	1
##		2023-10-01				0.384	1
##		2024-01-01				0.423	1
##		2024-04-01				0.655	1
##		2024-07-01				0.509	1
##	100	2024-10-01	00:00:00	Austria	1	0.620	1
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##	Э	2002-01-01	00.00:00	Durkar 19	ı U	IVA		IVA

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##	98	2024-04-01	00:00:00	China	0	0	0
##	99	2024-07-01	00:00:00	China	0	0	0
##	100	2024-10-01	00:00:00	China	0	0	0
##							
##	\$Cr	oatia					
##	# A	tibble: 100	0 x 5				
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##		2002-07-01				NA	NA
##		2002-10-01				NA	NA
##		2003-01-01				NA	NA
##	14	2003-04-01	00:00:00	Croatia	0	NA	NA

			 ~			
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##		2003-10-01			NA	NA
##		2004-01-01			NA	NA
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##		2005-10-01			NA 0.0040	NA
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##		2013 07 01 2013-10-01			0.213	0
##		2014-01-01			0.259	0
TT 1T	01	2014 01 01	 JIOGUIA	-	0.200	J

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## ## \$Cyprus ## # A tibble: 100 x 5 ## year country recession predicted\_prob Predicted\_Y ## <dttm> <chr> <fct> <dbl> <dbl> ## 1 2000-01-01 00:00:00 Cyprus 0 NA NA 2 2000-04-01 00:00:00 Cyprus NA ## NA 3 2000-07-01 00:00:00 Cyprus 0 NA ## NA ## 4 2000-10-01 00:00:00 Cyprus 0 NA NA ## 5 2001-01-01 00:00:00 Cyprus NA NA ## 6 2001-04-01 00:00:00 Cyprus NA NA ## 7 2001-07-01 00:00:00 Cyprus NA NA ## 8 2001-10-01 00:00:00 Cyprus NA NA ## 9 2002-01-01 00:00:00 Cyprus 0 NA NA 10 2002-04-01 00:00:00 Cyprus NA NA 11 2002-07-01 00:00:00 Cyprus ## NA NA ## 12 2002-10-01 00:00:00 Cyprus NA NA ## 13 2003-01-01 00:00:00 Cyprus NA NA 14 2003-04-01 00:00:00 Cyprus ## NA NA 15 2003-07-01 00:00:00 Cyprus NA ## 0 NA ## 16 2003-10-01 00:00:00 Cyprus 0 NA NA 17 2004-01-01 00:00:00 Cyprus ## NA NA 18 2004-04-01 00:00:00 Cyprus NA NA ## 0 19 2004-07-01 00:00:00 Cyprus NA ## NA 20 2004-10-01 00:00:00 Cyprus ## NA NA 21 2005-01-01 00:00:00 Cyprus NA ## 0 NA 22 2005-04-01 00:00:00 Cyprus NA NA 23 2005-07-01 00:00:00 Cyprus ## NA NA 24 2005-10-01 00:00:00 Cyprus ## NA NA 25 2006-01-01 00:00:00 Cyprus NA NA ## 26 2006-04-01 00:00:00 Cyprus NA ## NA 27 2006-07-01 00:00:00 Cyprus NA ## 0 NA 28 2006-10-01 00:00:00 Cyprus NA NA ## 29 2007-01-01 00:00:00 Cyprus NA ## NA 30 2007-04-01 00:00:00 Cyprus ## NA NA 31 2007-07-01 00:00:00 Cyprus ## NA NA 32 2007-10-01 00:00:00 Cyprus 0 NA NA## ## 33 2008-01-01 00:00:00 Cyprus 0 NA NA 34 2008-04-01 00:00:00 Cyprus NA NA 35 2008-07-01 00:00:00 Cyprus NA NA ##

36 2008-10-01 00:00:00 Cyprus

37 2009-01-01 00:00:00 Cyprus

38 2009-04-01 00:00:00 Cyprus

##

NA

NA

NA

NA

NA

NA

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##	69 2017-01-01	00:00:00 Cyprus	0	NA	NA
##	70 2017-04-01	00:00:00 Cyprus	0	NA	NA
##	71 2017-07-01	00:00:00 Cyprus	0	NA	NA
##	72 2017-10-01	00:00:00 Cyprus	0	NA	NA
##	73 2018-01-01	00:00:00 Cyprus	0	NA	NA
##	74 2018-04-01	00:00:00 Cyprus	0	NA	NA
##	75 2018-07-01	00:00:00 Cyprus	0	NA	NA
##	76 2018-10-01	00:00:00 Cyprus	0	NA	NA
##	77 2019-01-01	00:00:00 Cyprus	0	NA	NA
##	78 2019-04-01	00:00:00 Cyprus	0	NA	NA
##	79 2019-07-01	00:00:00 Cyprus	. 0	NA	NA
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##	81 2020-01-01	00:00:00 Cyprus	0	NA	NA

	00	0000 04 04	00 00 00	<b>a</b>	4	27.4	37.4
##		2020-04-01			1	NA	NA NA
##		2020-07-01		• -	0	NA	NA
##		2020-10-01		• -	0	NA	NA NA
##		2021-01-01		-	0	NA	NA NA
##		2021-04-01		0.1	0	NA	NA NA
##		2021-07-01			0	NA	NA O
##		2021-10-01		• -	0	0	0
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##		2022-07-01			0	0	0
##		2022-10-01			0	0	0
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##		2023-07-01		• -	0	0	0
##		2023-10-01		0.1	0	0	0
##		2024-01-01			0	0	0
##		2024-04-01			0	0	0
##		2024-07-01		• -	0	0	0
##	100	2024-10-01	00:00:00	Cyprus	0	0	0
##							
##	\$Cz						
	# A	tibble: 100	0 x 5				
##	# A	year	0 x 5	-		predicted_prob	
## ##		year <dttm></dttm>		<chr></chr>	<fct></fct>	<dbl></dbl>	<dbl></dbl>
## ## ##	1	year <dttm> 2000-01-01</dttm>	00:00:00	<chr></chr>	<fct></fct>	<dbl></dbl>	<dbl></dbl>
## ## ## ##	1 2	year <dttm> 2000-01-01 2000-04-01</dttm>	00:00:00 00:00:00	<chr> Czech</chr>	<fct> 0 0</fct>	<dbl></dbl>	<dbl></dbl>
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## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12	year <dttm> 2000-01-01 2000-04-01 2000-07-01 2000-10-01 2001-01-01 2001-07-01 2001-10-01 2002-01-01 2002-01-01 2002-01-01 2002-07-01 2002-10-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	<chr> Czech Czech</chr>	<fct> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</fct>	<dbl> NA NA 0.0056 0.0008 0 0 0 0 0 0.0002 0.0001</dbl>	<dbl></dbl>
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12	year <dttm> 2000-01-01 2000-04-01 2000-07-01 2000-10-01 2001-01-01 2001-04-01 2001-10-01 2002-01-01 2002-04-01 2002-07-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	<chr> Czech Czech</chr>	<fct> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</fct>	<dbl> NA NA 0.0056 0.0008 0 0 0 0 0 0.0002 0.0001 0</dbl>	<dbl> NA NA O O O O O O O O O O O O O O O O O</dbl>
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## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	year <dttm> 2000-01-01 2000-04-01 2000-07-01 2000-10-01 2001-01-01 2001-07-01 2001-10-01 2002-01-01 2002-04-01 2002-07-01 2003-01-01 2003-01-01 2003-07-01 2003-10-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	<chr> Czech Czech</chr>	<fct> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</fct>	<dbl> NA NA NA 0.0056 0.0008 0 0 0 0 0 0.0002 0.0001 0 0.0011 0.0025 0.0757 0.347 0.288</dbl>	<dbl> NA NA O O O O O O O O O O O O O O O O O</dbl>

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```
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##
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    79 2019-07-01 00:00:00 Czech
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    90 2022-04-01 00:00:00 Czech
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    92 2022-10-01 00:00:00 Czech
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##
    93 2023-01-01 00:00:00 Czech
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##
    94 2023-04-01 00:00:00 Czech
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##
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    95 2023-07-01 00:00:00 Czech
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                                                                           0
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##
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   100 2024-10-01 00:00:00 Czech
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                                                         0.0069
                                                                           0
##
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       year
                             country recession predicted_prob Predicted_Y
##
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	20	2010 07 01		20111101 K	•	3.0001	9

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##		2024-04-01				0	0
##		2024-07-01				0	0
##	100	2024-10-01	00:00:00	Estonia	0	0	0
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	•	nland					
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##	23	2005-07-01	00:00:00	${\tt Finland}$	0	0.106	0
##	24	2005-10-01	00:00:00	${\tt Finland}$	0	0.122	0
##	25	2006-01-01	00:00:00	Finland	0	0.112	0
##	26	2006-04-01	00:00:00	Finland	0	0.137	0
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##	31	2007-07-01	00:00:00	Finland	0	0.0723	0
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##	38	2009-04-01	00:00:00	Finland	1	0.182	0
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##	44	2010-10-01	00:00:00	Finland	0	0.124	0
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##	47	2011-07-01	00:00:00	Finland	0	0.0536	0
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##	79	2019-07-01	00:00:00	Finland	0	0.175	0
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##		2024 04 01				0.145	0
##		2024 07 01				0.172	0
##	100	2024 10 01	00.00.00	Tillianu	O	0.172	O
##	\$Fra	ance					
##	•	nice tibble: 100	) <del>v</del> 5				
##	πл	year	7 X 3	country	recession	predicted_prob	Predicted V
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##		2000-07-01			0	0	0
##		2000-10-01			0	0	0
##	_	2001-01-01			0	0.0015	0
##	_	2001-04-01			0	0.0016	0
##		2001-07-01			0	0.0004	0
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##		2002-07-01			0	0	0
##		2002-10-01			0	0	0
##	13	2003-01-01	00:00:00	France	0	0	0
##	14	2003-04-01	00:00:00	France	0	0	0
##	15	2003-07-01	00:00:00	France	0	0	0
##	16	2003-10-01	00:00:00	France	0	0	0
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##	18	2004-04-01	00:00:00	France	0	0	0
##	19	2004-07-01	00:00:00	France	0	0	0
##	20	2004-10-01	00:00:00	France	0	0	0
##	21	2005-01-01	00:00:00	France	0	0	0
##	22	2005-04-01	00:00:00	France	0	0	0
##	23	2005-07-01	00:00:00	France	0	0.0001	0
##	24	2005-10-01	00:00:00	France	0	0.0003	0
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##	28	2006-10-01	00:00:00	France	0	0.0004	0
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##	30	2007-04-01	00:00:00	France	0	0.0075	0
##	31	2007-07-01	00:00:00	France	0	0.0016	0
##	32	2007-10-01	00:00:00	France	0	0.0187	0
##	33	2008-01-01	00:00:00	France	0	0.118	0
##	34	2008-04-01	00:00:00	France	0	0.122	0
##	35	2008-07-01	00:00:00	France	1	0.0826	0
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##	37	2009-01-01	00:00:00	France	1	0.694	1
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##	40	2009-10-01	00:00:00	France	0	0	0
##	41	2010-01-01	00:00:00	France	0	0	0
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##	43	2010-07-01	00:00:00	France	0	0	0
##	44	2010-10-01	00:00:00	France	0	0	0
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##	47	2011-07-01	00:00:00	France	0	0	0
##	48	2011-10-01	00:00:00	France	0	0.0001	0
##	49	2012-01-01	00:00:00	France	0	0	0
##	50	2012-04-01	00:00:00	France	0	0	0
##	51	2012-07-01	00:00:00	France	0	0	0
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##	53	2013-01-01	00:00:00	France	0	0	0
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##	55	2013-07-01	00:00:00	France	0	0	0
##	56	2013-10-01	00:00:00	France	0	0	0
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##	59	2014-07-01	00:00:00	France	0	0	0
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##	62	2015-04-01	00:00:00	France	0	0.0864	0
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##	71	2017-07-01	00:00:00	France	0	0.004	0
##	72	2017-10-01	00:00:00	France	0	0.0051	0

	70	0040 04 04	00 00 00	-	^	0	0000	0
##		2018-01-01			0		0068	0
##		2018-04-01			0		0017	0
##		2018-07-01			0		0042	0
##		2018-10-01			0		0073	0
##		2019-01-01			0		004	0
##		2019-04-01			0		0144	0
##		2019-07-01			0		0549	0
##		2019-10-01			0		341	1
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##		2020-04-01			1		197	0
##		2020-07-01			0		220	0
##		2020-10-01			0		207	0
##		2021-01-01			0		308	1
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##		2021-07-01			0	0.0	0505	0
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##	91	2022-07-01	00:00:00	France	0	0		0
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##	94	2023-04-01	00:00:00	France	0	0.0	0021	0
##	95	2023-07-01	00:00:00	France	0	0.0	0566	0
##	96	2023-10-01	00:00:00	France	0	0.	101	0
##	97	2024-01-01	00:00:00	France	0	0.:	204	0
##	98	2024-04-01	00:00:00	France	0	0.	517	1
##	99	2024-07-01	00:00:00	France	0	0.:	245	0
##	100	2024-10-01	00:00:00	France	0	0.:	224	0
##								
##	\$Ger	rmany						
##	# A	tibble: 100	0 x 5					
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##	79	2019-07-01	00:00:00	${\tt Germany}$	0	0.035	0
##	80	2019-10-01	00:00:00	${\tt Germany}$	0	0.0874	0
##	81	2020-01-01	00:00:00	${\tt Germany}$	1	0.0555	0
##	82	2020-04-01	00:00:00	${\tt Germany}$	1	0.0485	0
##	83	2020-07-01	00:00:00	${\tt Germany}$	0	0.0781	0
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##	85	2021-01-01	00:00:00	${\tt Germany}$	0	0.0861	0
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##	90	2022-04-01	00:00:00	${\tt Germany}$	0	0.217	0
##	91	2022-07-01	00:00:00	${\tt Germany}$	0	0.0211	0
##	92	2022-10-01	00:00:00	${\tt Germany}$	0	0.0436	0
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##	95	2023-07-01	00:00:00	${\tt Germany}$	0	0.149	0
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##	\$Gre	eece					
##	# A	tibble: 100	) x 5				
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##	4	2000-10-01	00:00:00	Greece	0	0.0304	0
##	5	2001-01-01	00:00:00	Greece	0	0.0456	0
##	6	2001-04-01	00:00:00	Greece	0	0.0477	0
##	7	2001-07-01	00:00:00	Greece	0	0.0526	0
##	8	2001-10-01	00:00:00	Greece	0	0.0674	0
##	9	2002-01-01	00:00:00	Greece	0	0.0772	0
##	10	2002-04-01	00:00:00	Greece	0	0.0751	0
##	11	2002-07-01	00:00:00	Greece	0	0.0628	0
##	12	2002-10-01	00:00:00	Greece	0	0.066	0
##	13	2003-01-01	00:00:00	Greece	0	0.0689	0
##	14	2003-04-01	00:00:00	Greece	0	0.0727	0
##	15	2003-07-01	00:00:00	Greece	0	0.087	0
##		2003-10-01			0	0.0907	0
##	17	2004-01-01	00:00:00	Greece	0	0.0866	0
##		2004-04-01			0	0.0925	0
##		2004-07-01			0	0.0847	0
##		2004-10-01			0	0.0728	0
##		2005-01-01			0	0.0709	0
##		2005-04-01			0	0.0675	0
##		2005-07-01			0	0.063	0
##		2005-10-01			0	0.0623	0
##		2006-01-01			0	0.06	0
##		2006-04-01			0	0.0657	0
##		2006-07-01			0	0.052	0
##		2006-10-01			0	0.0412	0
##		2007-01-01			0	0.0428	0
##		2007-04-01			0	0.0434	0
##		2007-07-01			0	0.0358	0
##		2007-10-01 2008-01-01			0	0.0312 0.0345	0
##		2008-01-01			0	0.0348	0
##	54	2000-04 <b>-</b> 01	00.00:00	ar sece	V	0.0348	U

	05 0000 05 04				_
##		00:00:00 Greece	0	0.0345	0
##		00:00:00 Greece	0	0.0526	0
##		00:00:00 Greece	1	0.168	0
##		00:00:00 Greece	0	0.157	0
##		00:00:00 Greece	0	0.14	0
##		00:00:00 Greece	1	0.167	0
##		00:00:00 Greece	1	0.244	0
##		00:00:00 Greece	1	0.377	1
##		00:00:00 Greece	1	0.537	1
##		00:00:00 Greece	1	0.497	1
##		00:00:00 Greece	1	0.562	1
##		00:00:00 Greece	1	0.801	1
##		00:00:00 Greece	1	0.809	1
##		00:00:00 Greece	1	0.917	1
##		00:00:00 Greece	1	0.998	1
##		00:00:00 Greece	1	0.993	1
##		00:00:00 Greece	1	0.986	1
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##		00:00:00 Greece	1	0.456	1
##		00:00:00 Greece	0	0.482	1
##		00:00:00 Greece	0	0.498	1
##		00:00:00 Greece	0	0.356	1
##		00:00:00 Greece	0	0.302	1
##		00:00:00 Greece	0	0.218	0
##		00:00:00 Greece	0	0.241	0
##		00:00:00 Greece	0	0.398	1
##		00:00:00 Greece	0	0.533	1
##		00:00:00 Greece	0	0.631	1
##		00:00:00 Greece	1	0.420	1
##		00:00:00 Greece		0.333	1
##			0	0.522	1
##		00:00:00 Greece	1	0.375	1
##		00:00:00 Greece	0	0.402	1
##		00:00:00 Greece	0	0.349	1
##		00:00:00 Greece	0	0.339	1
##		00:00:00 Greece	0	0.257	0
##		00:00:00 Greece	0	0.232	0
##		00:00:00 Greece	0	0.215	0
##		00:00:00 Greece	0	0.160	0
##		00:00:00 Greece	0	0.183	0
##		00:00:00 Greece	0	0.171	0
##		00:00:00 Greece	0	0.190	0
##	(/ 2019-01-01	00:00:00 Greece	0	0.162	0

				_			
##		2019-04-01			0	0.128	0
##		2019-07-01			0	0.0866	0
##		2019-10-01			1	0.0797	0
##		2020-01-01			1	0.0867	0
##		2020-04-01			1	0.0932	0
##		2020-07-01			0	0.0747	0
##		2020-10-01			0	0.0695	0
##		2021-01-01			0	0.073	0
##		2021-04-01			0	0.0758	0
##		2021-07-01			0	0.0692	0
##		2021-10-01			0	0.0861	0
##	89	2022-01-01	00:00:00	Greece	0	0.123	0
##	90	2022-04-01	00:00:00	Greece	0	0.163	0
##	91	2022-07-01	00:00:00	Greece	0	0.121	0
##	92	2022-10-01	00:00:00	Greece	0	0.0946	0
##	93	2023-01-01	00:00:00	Greece	0	0.0591	0
##	94	2023-04-01	00:00:00	Greece	0	0.0387	0
##	95	2023-07-01	00:00:00	Greece	0	0.0335	0
##	96	2023-10-01	00:00:00	Greece	0	0.0297	0
##	97	2024-01-01	00:00:00	Greece	0	0.0249	0
##	98	2024-04-01	00:00:00	Greece	0	0.0308	0
##	99	2024-07-01	00:00:00	Greece	0	0.0306	0
##	100	2024-10-01	00:00:00	Greece	0	0.0377	0
##							
##	\$Hur	ngary					
##	# A	tibble: 100	0 x 5				
##		year		country	recession	${\tt predicted\_prob}$	Predicted_Y
##		<dttm></dttm>		<chr></chr>	<fct></fct>	<dbl></dbl>	<dbl></dbl>
##	1	2000-01-01	00:00:00	${\tt Hungary}$	0	NA	NA
##	2	2000-04-01	00:00:00	Hungary	0	0.130	0
##	3	2000-07-01	00:00:00	Hungary	0	0.159	0
##	4	2000-10-01	00:00:00	Hungary	0	0.169	0
##	5	2001-01-01	00:00:00	Hungary	0	0.158	0
##	6	2001-04-01	00:00:00	Hungary	0	0.164	0
##	7	2001-07-01	00:00:00	Hungary	0	0.172	0
##	8	2001-10-01	00:00:00	Hungary	0	0.142	0
##	9	2002-01-01	00:00:00	Hungary	0	0.100	0
##	10	2002-04-01	00:00:00	Hungary	0	0.117	0
##	11	2002-07-01	00:00:00	Hungary	0	0.152	0
##	12	2002-10-01	00:00:00	Hungary	0	0.142	0
##	13	2003-01-01	00:00:00	Hungary	0	0.0389	0
##	14	2003-04-01	00:00:00	Hungary	0	0.123	0
##	15	2003-07-01	00:00:00	Hungary	0	0.193	0

##		2003-10-01		0 0		0.212	0
##	17	2004-01-01	00:00:00	Hungary	0	0.216	0
##	18	2004-04-01	00:00:00	Hungary	0	0.145	0
##	19	2004-07-01	00:00:00	Hungary	0	0.149	0
##	20	2004-10-01	00:00:00	Hungary	0	0.120	0
##	21	2005-01-01	00:00:00	Hungary	0	0.0944	0
##	22	2005-04-01	00:00:00	Hungary	0	0.08	0
##	23	2005-07-01	00:00:00	Hungary	0	0.0765	0
##	24	2005-10-01	00:00:00	Hungary	0	0.061	0
##	25	2006-01-01	00:00:00	Hungary	0	0.0636	0
##	26	2006-04-01	00:00:00	${\tt Hungary}$	0	0.0692	0
##	27	2006-07-01	00:00:00	${\tt Hungary}$	0	0.0913	0
##	28	2006-10-01	00:00:00	${\tt Hungary}$	0	0.136	0
##	29	2007-01-01	00:00:00	${\tt Hungary}$	0	0.109	0
##	30	2007-04-01	00:00:00	${\tt Hungary}$	1	0.115	0
##	31	2007-07-01	00:00:00	${\tt Hungary}$	0	0.0951	0
##	32	2007-10-01	00:00:00	${\tt Hungary}$	0	0.091	0
##	33	2008-01-01	00:00:00	${\tt Hungary}$	0	0.0805	0
##	34	2008-04-01	00:00:00	${\tt Hungary}$	0	0.0999	0
##	35	2008-07-01	00:00:00	${\tt Hungary}$	0	0.108	0
##	36	2008-10-01	00:00:00	Hungary	1	0.150	0
##	37	2009-01-01	00:00:00	${\tt Hungary}$	1	0.0597	0
##	38	2009-04-01	00:00:00	Hungary	0	0.120	0
##	39	2009-07-01	00:00:00	${\tt Hungary}$	0	0.116	0
##	40	2009-10-01	00:00:00	Hungary	1	0.065	0
##	41	2010-01-01	00:00:00	Hungary	0	0.0559	0
##	42	2010-04-01	00:00:00	${\tt Hungary}$	0	0.0565	0
##	43	2010-07-01	00:00:00	Hungary	0	0.0636	0
##	44	2010-10-01	00:00:00	Hungary	0	0.0547	0
##	45	2011-01-01	00:00:00	${\tt Hungary}$	0	0.0755	0
##	46	2011-04-01	00:00:00	${\tt Hungary}$	0	0.0719	0
##	47	2011-07-01	00:00:00	Hungary	0	0.0668	0
##	48	2011-10-01	00:00:00	Hungary	0	0.0479	0
##	49	2012-01-01	00:00:00	Hungary	0	0.111	0
##	50	2012-04-01	00:00:00	Hungary	1	0.08	0
##	51	2012-07-01	00:00:00	Hungary	0	0.102	0
##	52	2012-10-01	00:00:00	Hungary	0	0.0535	0
##	53	2013-01-01	00:00:00	Hungary	0	0.0564	0
##	54	2013-04-01	00:00:00	Hungary	0	0.0595	0
##	55	2013-07-01	00:00:00	Hungary	0	0.0376	0
##	56	2013-10-01	00:00:00	Hungary	0	0.037	0
##	57	2014-01-01	00:00:00	Hungary	0	0.0348	0
##	58	2014-04-01	00:00:00	Hungary	0	0.0454	0

##		2014-07-01		0 0		0.0359	0
##		2014-10-01		•		0.0483	0
##		2015-01-01		•		0.0519	0
##		2015-04-01		•		0.0322	0
##		2015-07-01		• •		0.0325	0
##		2015-10-01		• •		0.0408	0
##	65	2016-01-01	00:00:00	Hungary	0	0.0377	0
##	66	2016-04-01	00:00:00	Hungary	0	0.0341	0
##	67	2016-07-01	00:00:00	Hungary	0	0.0376	0
##	68	2016-10-01	00:00:00	Hungary	0	0.0302	0
##	69	2017-01-01	00:00:00	Hungary	0	0.0246	0
##	70	2017-04-01	00:00:00	Hungary	0	0.0337	0
##	71	2017-07-01	00:00:00	${\tt Hungary}$	0	0.0342	0
##	72	2017-10-01	00:00:00	${\tt Hungary}$	0	0.0392	0
##	73	2018-01-01	00:00:00	Hungary	0	0.0331	0
##	74	2018-04-01	00:00:00	${\tt Hungary}$	0	0.0283	0
##	75	2018-07-01	00:00:00	${\tt Hungary}$	0	0.0257	0
##	76	2018-10-01	00:00:00	${\tt Hungary}$	0	0.0285	0
##	77	2019-01-01	00:00:00	${\tt Hungary}$	0	0.0379	0
##	78	2019-04-01	00:00:00	${\tt Hungary}$	0	0.0304	0
##	79	2019-07-01	00:00:00	${\tt Hungary}$	0	0.0485	0
##	80	2019-10-01	00:00:00	${\tt Hungary}$	0	0.0388	0
##	81	2020-01-01	00:00:00	${\tt Hungary}$	0	0.0365	0
##	82	2020-04-01	00:00:00	${\tt Hungary}$	1	0.0478	0
##	83	2020-07-01	00:00:00	${\tt Hungary}$	0	0.0356	0
##	84	2020-10-01	00:00:00	${\tt Hungary}$	0	0.0403	0
##	85	2021-01-01	00:00:00	${\tt Hungary}$	0	0.0355	0
##	86	2021-04-01	00:00:00	${\tt Hungary}$	0	0.0329	0
##	87	2021-07-01	00:00:00	${\tt Hungary}$	0	0.0414	0
##	88	2021-10-01	00:00:00	${\tt Hungary}$	0	0.0521	0
##	89	2022-01-01	00:00:00	${\tt Hungary}$	0	0.0744	0
##	90	2022-04-01	00:00:00	${\tt Hungary}$	0	0.0715	0
##	91	2022-07-01	00:00:00	${\tt Hungary}$	0	0.319	1
##	92	2022-10-01	00:00:00	${\tt Hungary}$	1	0.433	1
##	93	2023-01-01	00:00:00	${\tt Hungary}$	1	0.373	1
##	94	2023-04-01	00:00:00	${\tt Hungary}$	0	0.304	1
##	95	2023-07-01	00:00:00	${\tt Hungary}$	0	0.148	0
##	96	2023-10-01	00:00:00	${\tt Hungary}$	0	0.095	0
##	97	2024-01-01	00:00:00	Hungary	0	0.102	0
##	98	2024-04-01	00:00:00	Hungary	0	0.0733	0
##	99	2024-07-01	00:00:00	Hungary	1	0.0836	0
##	100	2024-10-01	00:00:00	Hungary	0	0.0718	0
##							

## \$Ireland

##	фтте	erand				
##	# A	tibble: 100 x 5				
##		year	country	recession	predicted_prob	Predicted_Y
##		<dttm></dttm>	<chr></chr>	<fct></fct>	<dbl></dbl>	<dbl></dbl>
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##	3	2000-07-01 00:00	:00 Ireland	1 0	0.269	0
##	4	2000-10-01 00:00	:00 Ireland	1 0	0.323	1
##	5	2001-01-01 00:00	:00 Ireland	1 0	0.376	1
##		2001-04-01 00:00			0.421	1
##	7	2001-07-01 00:00	:00 Ireland	1 0	0.360	1
##	8	2001-10-01 00:00	:00 Ireland	1 0	0.276	0
##	9	2002-01-01 00:00	:00 Ireland	1 0	0.255	0
##	10	2002-04-01 00:00	:00 Ireland	1 0	0.204	0
##	11	2002-07-01 00:00	:00 Ireland	1 0	0.156	0
##	12	2002-10-01 00:00	:00 Ireland	1 0	0.178	0
##	13	2003-01-01 00:00	:00 Ireland	1 0	0.131	0
##	14	2003-04-01 00:00	:00 Ireland	1 0	0.117	0
##	15	2003-07-01 00:00	:00 Ireland	1 0	0.112	0
##	16	2003-10-01 00:00	:00 Ireland	1 0	0.0997	0
##	17	2004-01-01 00:00	:00 Ireland	1 0	0.079	0
##	18	2004-04-01 00:00	:00 Ireland	1 0	0.0969	0
##	19	2004-07-01 00:00	:00 Ireland	1 0	0.0764	0
##	20	2004-10-01 00:00	:00 Ireland	1 0	0.0633	0
##	21	2005-01-01 00:00	:00 Ireland	1 0	0.0716	0
##	22	2005-04-01 00:00	:00 Ireland	1 0	0.0682	0
##	23	2005-07-01 00:00	:00 Ireland	1 0	0.0718	0
##	24	2005-10-01 00:00	:00 Ireland	1 0	0.0816	0
##	25	2006-01-01 00:00	:00 Ireland	1 0	0.0941	0
##	26	2006-04-01 00:00	:00 Ireland	1 0	0.133	0
##	27	2006-07-01 00:00	:00 Ireland	1 0	0.116	0
##	28	2006-10-01 00:00	:00 Ireland	1 0	0.137	0
##	29	2007-01-01 00:00	:00 Ireland	1 0	0.220	0
##	30	2007-04-01 00:00	:00 Ireland	1 0	0.258	0
##	31	2007-07-01 00:00	:00 Ireland	l 1	0.227	0
##	32	2007-10-01 00:00	:00 Ireland	1 0	0.231	0
##	33	2008-01-01 00:00	:00 Ireland	l 0	0.274	0
##	34	2008-04-01 00:00	:00 Ireland	l 1	0.272	0
##	35	2008-07-01 00:00	:00 Ireland	l 1	0.288	0
##	36	2008-10-01 00:00	:00 Ireland	l 1	0.325	1
##	37	2009-01-01 00:00	:00 Ireland	l 1	0.465	1
##	38	2009-04-01 00:00	:00 Ireland	l 1	0.0877	0

0.0607

0

## 39 2009-07-01 00:00:00 Ireland 1

##	40	2009-10-01	00:00:00	${\tt Ireland}$	1	0.0516	0
##	41	2010-01-01	00:00:00	Ireland	0	0.0528	0
##	42	2010-04-01	00:00:00	Ireland	0	0.0687	0
##	43	2010-07-01	00:00:00	Ireland	0	0.0802	0
##	44	2010-10-01	00:00:00	${\tt Ireland}$	0	0.224	0
##	45	2011-01-01	00:00:00	${\tt Ireland}$	0	0.186	0
##	46	2011-04-01	00:00:00	${\tt Ireland}$	0	0.192	0
##	47	2011-07-01	00:00:00	${\tt Ireland}$	0	0.0792	0
##	48	2011-10-01	00:00:00	${\tt Ireland}$	0	0.0256	0
##	49	2012-01-01	00:00:00	${\tt Ireland}$	0	0.037	0
##	50	2012-04-01	00:00:00	${\tt Ireland}$	0	0.0763	0
##	51	2012-07-01	00:00:00	${\tt Ireland}$	0	0.0251	0
##	52	2012-10-01	00:00:00	${\tt Ireland}$	0	0.0219	0
##	53	2013-01-01	00:00:00	${\tt Ireland}$	0	0.0234	0
##	54	2013-04-01	00:00:00	${\tt Ireland}$	0	0.0379	0
##	55	2013-07-01	00:00:00	${\tt Ireland}$	0	0.0488	0
##	56	2013-10-01	00:00:00	${\tt Ireland}$	0	0.0311	0
##	57	2014-01-01	00:00:00	${\tt Ireland}$	0	0.0298	0
##	58	2014-04-01	00:00:00	${\tt Ireland}$	0	0.0243	0
##	59	2014-07-01	00:00:00	${\tt Ireland}$	0	0.021	0
##	60	2014-10-01	00:00:00	${\tt Ireland}$	0	0.0212	0
##	61	2015-01-01	00:00:00	${\tt Ireland}$	0	0.0189	0
##	62	2015-04-01	00:00:00	${\tt Ireland}$	0	0.034	0
##	63	2015-07-01	00:00:00	${\tt Ireland}$	0	0.0339	0
##	64	2015-10-01	00:00:00	${\tt Ireland}$	0	0.024	0
##	65	2016-01-01	00:00:00	${\tt Ireland}$	0	0.0243	0
##	66	2016-04-01	00:00:00	${\tt Ireland}$	0	0.0219	0
##	67	2016-07-01	00:00:00	${\tt Ireland}$	0	0.0166	0
##	68	2016-10-01	00:00:00	Ireland	0	0.0303	0
##	69	2017-01-01	00:00:00	Ireland	0	0.0316	0
##	70	2017-04-01	00:00:00	Ireland	0	0.0195	0
##	71	2017-07-01	00:00:00	Ireland	0	0.0225	0
##	72	2017-10-01	00:00:00	${\tt Ireland}$	0	0.0197	0
##	73	2018-01-01	00:00:00	${\tt Ireland}$	0	0.0343	0
##	74	2018-04-01	00:00:00	Ireland	0	0.0225	0
##	75	2018-07-01	00:00:00	Ireland	0	0.0221	0
##	76	2018-10-01	00:00:00	${\tt Ireland}$	0	0.0258	0
##	77	2019-01-01	00:00:00	${\tt Ireland}$	0	0.0205	0
##	78	2019-04-01	00:00:00	${\tt Ireland}$	0	0.0164	0
##	79	2019-07-01	00:00:00	${\tt Ireland}$	0	0.016	0
##	80	2019-10-01	00:00:00	${\tt Ireland}$	0	0.0203	0
##	81	2020-01-01	00:00:00	Ireland	0	0.0187	0
##	82	2020-04-01	00:00:00	Ireland	0	0.0206	0

##		2020-07-01				0.0187	0
##		2020-10-01				0.0178	0
##		2021-01-01				0.0233	0
##		2021-04-01				0.0254	0
##	87	2021-07-01	00:00:00	Ireland	0	0.0175	0
##	88	2021-10-01	00:00:00	Ireland	0	0.024	0
##	89	2022-01-01	00:00:00	Ireland	0	0.0325	0
##	90	2022-04-01	00:00:00	Ireland	0	0.047	0
##	91	2022-07-01	00:00:00	Ireland	0	0.0215	0
##	92	2022-10-01	00:00:00	Ireland	0	0.0639	0
##	93	2023-01-01	00:00:00	Ireland	1	0.129	0
##	94	2023-04-01	00:00:00	Ireland	1	0.201	0
##	95	2023-07-01	00:00:00	${\tt Ireland}$	1	0.330	1
##	96	2023-10-01	00:00:00	${\tt Ireland}$	1	0.370	1
##	97	2024-01-01	00:00:00	${\tt Ireland}$	0	0.378	1
##	98	2024-04-01	00:00:00	${\tt Ireland}$	0	0.444	1
##	99	2024-07-01	00:00:00	${\tt Ireland}$	0	0.364	1
##	100	2024-10-01	00:00:00	${\tt Ireland}$	0	0.360	1
##							
##	\$Ita	aly					
##	# A	tibble: 100	0 x 5				
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##		2024-04-01				0.0413 0.0493	0
##		2024-07-01				0.0493	0
##	100	2024 10 01	00.00.00	Lithuania	O	0.0712	O
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##		2023-01-01 2023-04-01			•		.0197 .0532
					J		. 143
##		2023-07-01			•		
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##		2024-01-01			•		.210
##		2024-04-01			•		.380
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##	20	2004-10-01	00:00:00	Malta	0	0.052	29 0
##	21	2005-01-01	00:00:00	Malta	0	0.05	5 0
##	22	2005-04-01	00:00:00	Malta	0	0.102	2 0
##	23	2005-07-01	00:00:00	Malta	0	0.063	39 0
##	24	2005-10-01	00:00:00	Malta	0	0.043	31 0
##	25	2006-01-01	00:00:00	Malta	0	0.04	17 0
##	26	2006-04-01	00:00:00	Malta	0	0.066	64 0
##	27	2006-07-01	00:00:00	Malta	0	0.056	66 0
##	28	2006-10-01	00:00:00	Malta	0	0.047	71 0
##	29	2007-01-01	00:00:00	Malta	0	0.054	1 0
##	30	2007-04-01	00:00:00	Malta	0	0.03	17 0

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##	33	2008-01-01	00:00:00	Malta	0	0.0197	0
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##	35	2008-07-01	00:00:00	Malta	0	0.0147	0
##	36	2008-10-01	00:00:00	Malta	0	0.0075	0
##	37	2009-01-01	00:00:00	Malta	0	0.0001	0
##	38	2009-04-01	00:00:00	Malta	0	0.0023	0
##	39	2009-07-01	00:00:00	Malta	0	0.0134	0
##	40	2009-10-01	00:00:00	Malta	0	0.0223	0
##	41	2010-01-01	00:00:00	Malta	0	0.0106	0
##	42	2010-04-01	00:00:00	Malta	0	0.0245	0
##	43	2010-07-01	00:00:00	Malta	0	0.0584	0
##	44	2010-10-01	00:00:00	Malta	0	0.0238	0
##	45	2011-01-01	00:00:00	Malta	0	0.0161	0
##	46	2011-04-01	00:00:00	Malta	1	0.0487	0
##	47	2011-07-01	00:00:00	Malta	0	0.0943	0
##	48	2011-10-01	00:00:00	Malta	0	0.0167	0
##	49	2012-01-01	00:00:00	Malta	0	0.0134	0
##	50	2012-04-01	00:00:00	Malta	0	0.0425	0
##	51	2012-07-01	00:00:00	Malta	0	0.0392	0
##	52	2012-10-01	00:00:00	Malta	0	0.0132	0
##	53	2013-01-01	00:00:00	Malta	0	0.0166	0
##	54	2013-04-01	00:00:00	Malta	0	0.0216	0
##	55	2013-07-01	00:00:00	Malta	0	0.0112	0
##	56	2013-10-01	00:00:00	Malta	0	0.013	0
##	57	2014-01-01	00:00:00	Malta	0	0.0159	0
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##	59	2014-07-01	00:00:00	Malta	0	0.0155	0
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##	68	2016-10-01	00:00:00	Malta	0	0.0008	0
##	69	2017-01-01	00:00:00	Malta	0	0.0003	0
##	70	2017-04-01	00:00:00	Malta	0	0.003	0
##	71	2017-07-01	00:00:00	Malta	0	0.0035	0
##	72	2017-10-01	00:00:00	Malta	0	0.0027	0
##	73	2018-01-01	00:00:00	Malta	0	0.001	0

##	74	2018-04-01	00:00:00	Malta	0	0.0026	0
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##	76	2018-10-01	00:00:00	Malta	0	0.0026	0
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##	79	2019-07-01	00:00:00	Malta	0	0.0048	0
##	80	2019-10-01	00:00:00	Malta	0	0.0005	0
##	81	2020-01-01	00:00:00	Malta	0	0.0007	0
##	82	2020-04-01	00:00:00	Malta	0	0.0004	0
##	83	2020-07-01	00:00:00	Malta	0	0.0008	0
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##	91	2022-07-01	00:00:00	Malta	0	0.0071	0
##	92	2022-10-01	00:00:00	Malta	0	0.0491	0
##	93	2023-01-01	00:00:00	Malta	0	0.123	0
##	94	2023-04-01	00:00:00	Malta	0	0.0563	0
##	95	2023-07-01	00:00:00	Malta	0	0.0166	0
##	96	2023-10-01	00:00:00	Malta	0	0.109	0
##	97	2024-01-01	00:00:00	Malta	0	0.0334	0
##	98	2024-04-01	00:00:00	Malta	0	0.04	0
##	99	2024-07-01	00:00:00	Malta	0	0.0102	0
##	100	2024-10-01	00:00:00	Malta	1	0.0288	0
##							
##	\$Net	cherlands					
##	# A	tibble: 100	0 x 5				

## # A tibble: 100 x 5

##		year		country	recession	predicted_prob	Predicted_Y
##		<dttm></dttm>		<chr></chr>	<fct></fct>	<dbl></dbl>	<dbl></dbl>
##	1	2000-01-01	00:00:00	Netherlands	0	NA	NA
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##	3	2000-07-01	00:00:00	Netherlands	0	0.138	0
##	4	2000-10-01	00:00:00	Netherlands	0	0.148	0
##	5	2001-01-01	00:00:00	Netherlands	0	0.170	0
##	6	2001-04-01	00:00:00	Netherlands	0	0.189	0
##	7	2001-07-01	00:00:00	Netherlands	0	0.174	0
##	8	2001-10-01	00:00:00	Netherlands	0	0.181	0
##	9	2002-01-01	00:00:00	Netherlands	0	0.166	0
##	10	2002-04-01	00:00:00	Netherlands	0	0.146	0
##	11	2002-07-01	00:00:00	Netherlands	0	0.128	0

##	12	2002-10-01	00:00:00	${\tt Netherlands}$	0	0.149	0
##	13	2003-01-01	00:00:00	Netherlands	0	0.146	0
##	14	2003-04-01	00:00:00	${\tt Netherlands}$	0	0.155	0
##	15	2003-07-01	00:00:00	${\tt Netherlands}$	0	0.157	0
##	16	2003-10-01	00:00:00	${\tt Netherlands}$	0	0.142	0
##	17	2004-01-01	00:00:00	${\tt Netherlands}$	0	0.128	0
##	18	2004-04-01	00:00:00	${\tt Netherlands}$	0	0.143	0
##	19	2004-07-01	00:00:00	${\tt Netherlands}$	0	0.128	0
##	20	2004-10-01	00:00:00	${\tt Netherlands}$	0	0.121	0
##	21	2005-01-01	00:00:00	${\tt Netherlands}$	0	0.134	0
##	22	2005-04-01	00:00:00	${\tt Netherlands}$	0	0.134	0
##	23	2005-07-01	00:00:00	${\tt Netherlands}$	0	0.144	0
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##	25	2006-01-01	00:00:00	${\tt Netherlands}$	0	0.145	0
##	26	2006-04-01	00:00:00	${\tt Netherlands}$	0	0.161	0
##	27	2006-07-01	00:00:00	${\tt Netherlands}$	0	0.138	0
##	28	2006-10-01	00:00:00	${\tt Netherlands}$	0	0.142	0
##	29	2007-01-01	00:00:00	${\tt Netherlands}$	0	0.168	0
##	30	2007-04-01	00:00:00	${\tt Netherlands}$	0	0.172	0
##	31	2007-07-01	00:00:00	${\tt Netherlands}$	0	0.153	0
##	32	2007-10-01	00:00:00	${\tt Netherlands}$	0	0.160	0
##	33	2008-01-01	00:00:00	${\tt Netherlands}$	0	0.178	0
##	34	2008-04-01	00:00:00	${\tt Netherlands}$	0	0.179	0
##	35	2008-07-01	00:00:00	${\tt Netherlands}$	0	0.177	0
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##	39	2009-07-01	00:00:00	${\tt Netherlands}$	0	0.134	0
##	40	2009-10-01	00:00:00	${\tt Netherlands}$	0	0.123	0
##	41	2010-01-01	00:00:00	${\tt Netherlands}$	0	0.122	0
##	42	2010-04-01	00:00:00	${\tt Netherlands}$	0	0.113	0
##	43	2010-07-01	00:00:00	${\tt Netherlands}$	0	0.108	0
##	44	2010-10-01	00:00:00	${\tt Netherlands}$	0	0.138	0
##	45	2011-01-01	00:00:00	${\tt Netherlands}$	0	0.152	0
##	46	2011-04-01	00:00:00	${\tt Netherlands}$	0	0.123	0
##	47	2011-07-01	00:00:00	${\tt Netherlands}$	1	0.107	0
##	48	2011-10-01	00:00:00	${\tt Netherlands}$	1	0.138	0
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##	50	2012-04-01	00:00:00	Netherlands	1	0.152	0
##	51	2012-07-01	00:00:00	Netherlands	1	0.144	0
##	52	2012-10-01	00:00:00	Netherlands	1	0.142	0
##	53	2013-01-01	00:00:00	Netherlands	1	0.142	0
##	54	2013-04-01	00:00:00	Netherlands	0	0.141	0

##	55	2013-07-01	00:00:00	Netherlands	0	0.153	0
##	56	2013-10-01	00:00:00	Netherlands	0	0.131	0
##	57	2014-01-01	00:00:00	Netherlands	0	0.126	0
##	58	2014-04-01	00:00:00	Netherlands	0	0.13	0
##	59	2014-07-01	00:00:00	Netherlands	0	0.129	0
##	60	2014-10-01	00:00:00	Netherlands	0	0.136	0
##	61	2015-01-01	00:00:00	${\tt Netherlands}$	0	0.132	0
##	62	2015-04-01	00:00:00	${\tt Netherlands}$	0	0.168	0
##	63	2015-07-01	00:00:00	${\tt Netherlands}$	0	0.158	0
##	64	2015-10-01	00:00:00	Netherlands	0	0.143	0
##	65	2016-01-01	00:00:00	${\tt Netherlands}$	0	0.141	0
##	66	2016-04-01	00:00:00	${\tt Netherlands}$	0	0.149	0
##	67	2016-07-01	00:00:00	${\tt Netherlands}$	0	0.142	0
##	68	2016-10-01	00:00:00	${\tt Netherlands}$	0	0.166	0
##	69	2017-01-01	00:00:00	${\tt Netherlands}$	0	0.157	0
##	70	2017-04-01	00:00:00	${\tt Netherlands}$	0	0.150	0
##	71	2017-07-01	00:00:00	${\tt Netherlands}$	0	0.149	0
##	72	2017-10-01	00:00:00	${\tt Netherlands}$	0	0.143	0
##	73	2018-01-01	00:00:00	${\tt Netherlands}$	0	0.155	0
##	74	2018-04-01	00:00:00	${\tt Netherlands}$	0	0.144	0
##	75	2018-07-01	00:00:00	${\tt Netherlands}$	0	0.140	0
##	76	2018-10-01	00:00:00	${\tt Netherlands}$	0	0.148	0
##	77	2019-01-01	00:00:00	${\tt Netherlands}$	0	0.138	0
##	78	2019-04-01	00:00:00	${\tt Netherlands}$	0	0.146	0
##	79	2019-07-01	00:00:00	${\tt Netherlands}$	0	0.140	0
##	80	2019-10-01	00:00:00	${\tt Netherlands}$	0	0.166	0
##	81	2020-01-01	00:00:00	${\tt Netherlands}$	0	0.154	0
##	82	2020-04-01	00:00:00	${\tt Netherlands}$	1	0.154	0
##	83	2020-07-01	00:00:00	${\tt Netherlands}$	0	0.160	0
##	84	2020-10-01	00:00:00	${\tt Netherlands}$	0	0.156	0
##	85	2021-01-01	00:00:00	${\tt Netherlands}$	0	0.166	0
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##	100	2024-10-01	00:00:00	Netherla	inds 0	0.	.211
##							
##	\$Pol	and					
##	# A	tibble: 100	) x 5				
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##	12	2002-10-01	00:00:00	Poland	0	0.0062	0
##	13	2003-01-01	00:00:00	Poland	0	0.0087	0
##	14	2003-04-01	00:00:00	Poland	0	0.0095	0
##	15	2003-07-01	00:00:00	Poland	0	0.0047	0
##	16	2003-10-01	00:00:00	Poland	0	0.0001	0
##	17	2004-01-01	00:00:00	Poland	0	0	0
##	18	2004-04-01	00:00:00	Poland	0	0	0
##	19	2004-07-01	00:00:00	Poland	0	0	0
##		2004-10-01			0	0	0
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##	22	2005-04-01	00:00:00	Poland	0	0.0082	0
##		2005-07-01			0	0.004	0
##		2005-10-01			0	0.0023	0
##		2006-01-01			0	0.0007	0
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##		2006-07-01			0	0.0001	0
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##	39	2009-07-01	00:00:00	Poland	0	0	0
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##	73	2018-01-01	00:00:00	Poland	0	0.0007	0
##	74	2018-04-01	00:00:00	Poland	0	0.0008	0
##	75	2018-07-01	00:00:00	Poland	0	0.0014	0
##	76	2018-10-01	00:00:00	Poland	0	0.0014	0
##	77	2019-01-01	00:00:00	Poland	0	0.002	0
##	78	2019-04-01	00:00:00	Poland	0	0.0086	0

##	79	2019-07-01	00:00:00	Poland	0	0.0144	0
##	80	2019-10-01	00:00:00	Poland	0	0.0754	0
##	81	2020-01-01	00:00:00	Poland	0	0.0879	0
##	82	2020-04-01	00:00:00	Poland	0	0.146	0
##	83	2020-07-01	00:00:00	Poland	0	0.0576	0
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##	90	2022-04-01	00:00:00	Poland	0	0.0002	0
##	91	2022-07-01	00:00:00	Poland	0	0.0001	0
##	92	2022-10-01	00:00:00	Poland	0	0.0047	0
##	93	2023-01-01	00:00:00	Poland	0	0.0001	0
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##	95	2023-07-01	00:00:00	Poland	0	0.0069	0
##	96	2023-10-01	00:00:00	Poland	0	0.0149	0
##	97	2024-01-01	00:00:00	Poland	0	0.0015	0
##	98	2024-04-01	00:00:00	Poland	0	0.0045	0
##	99	2024-07-01	00:00:00	Poland	0	0.0011	0
			00 00 00	D - 1 1	^	0 0000	^
##	100	2024-10-01	00:00:00	Poland	0	0.0032	0
## ##	100	2024-10-01	00:00:00	Poland	O	0.0032	O
		2024-10-01	00:00:00	Poland	O	0.0032	0
## ##	\$Poi			Poland			
## ##	\$Poi	rtugal		country		0.0032	
## ## ##	\$Poi	rtugal tibble: 100					
## ## ## ##	\$Poi # A	rtugal tibble: 100 year <dttm> 2000-01-01</dttm>	0 x 5	country <chr></chr>	recession <fct></fct>	predicted_prob <dbl> NA</dbl>	Predicted_Y
## ## ## ##	\$Poi # A 1 2	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01</dttm>	00:00:00 00:00:00	country <chr> Portugal</chr>	recession <fct></fct>	predicted_prob <dbl> NA 0.127</dbl>	Predicted_Y <dbl></dbl>
## ## ## ## ##	\$Poi # A 1 2	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-07-01</dttm>	00:00:00 00:00:00 00:00:00	country <chr> Portugal Portugal</chr>	recession <fct> 0 0 0</fct>	predicted_prob <dbl> NA 0.127 0.182</dbl>	Predicted_Y <dbl> NA</dbl>
## ## ## ## ##	\$Poi # A 1 2 3 4	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-07-01 2000-10-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00	country <chr> Portugal Portugal Portugal Portugal</chr>	recession <fct> 0 0 0 0</fct>	predicted_prob	Predicted_Y <dbl> NA O</dbl>
## ## ## ## ## ##	\$Poi # A 1 2 3 4 5	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-07-01 2000-10-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00	country <chr> Portugal Portugal Portugal Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0</fct>	predicted_prob <dbl> NA 0.127 0.182 0.195 0.229</dbl>	Predicted_Y <dbl> NA 0</dbl>
## ## ## ## ## ##	\$Por # A 1 2 3 4 5 6	rtugal tibble: 100 year <dttm> 2000-01-01 2000-07-01 2000-10-01 2001-01-01 2001-04-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:	country <chr> Portugal Portugal Portugal Portugal Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0</fct>	predicted_prob <dbl> NA 0.127 0.182 0.195 0.229 0.302</dbl>	Predicted_Y <dbl> NA 0 0</dbl>
## ## ## ## ## ## ##	\$Por# A  1 2 3 4 5 6 7	rtugal tibble: 100 year <dttm> 2000-01-01 2000-07-01 2000-10-01 2001-01-01 2001-04-01 2001-07-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:	country <chr> Portugal Portugal Portugal Portugal Portugal Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0 0 0 0</fct>	predicted_prob <dbl> NA 0.127 0.182 0.195 0.229 0.302 0.268</dbl>	Predicted_Y <dbl> NA 0 0 0 1</dbl>
## ## ## ## ## ## ##	\$Poi # A 1 2 3 4 5 6 7 8	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-10-01 2001-01-01 2001-01-01 2001-07-01 2001-07-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:	country <chr> Portugal Portugal Portugal Portugal Portugal Portugal Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0 0 0 0 0</fct>	predicted_prob <dbl> NA 0.127 0.182 0.195 0.229 0.302 0.268 0.219</dbl>	Predicted_Y
## ## ## ## ## ## ## ##	\$Poi # A 1 2 3 4 5 6 7 8 9	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-10-01 2001-01-01 2001-04-01 2001-07-01 2001-10-01 2001-10-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:	country <chr> Portugal Portugal Portugal Portugal Portugal Portugal Portugal Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</fct>	predicted_prob <dbl> NA 0.127 0.182 0.195 0.229 0.302 0.268 0.219 0.223</dbl>	Predicted_Y
## ## ## ## ## ## ## ##	\$Poi # A 1 2 3 4 5 6 7 8 9	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-10-01 2001-01-01 2001-07-01 2001-07-01 2001-07-01 2002-01-01 2002-04-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	country <chr> Portugal Portugal Portugal Portugal Portugal Portugal Portugal Portugal Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</fct>	predicted_prob <dbl> NA 0.127 0.182 0.195 0.229 0.302 0.268 0.219 0.223 0.196</dbl>	Predicted_Y
## ## ## ## ## ## ## ## ##	\$Pon # A  1 2 3 4 5 6 7 8 9 10 11	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-10-01 2001-01-01 2001-04-01 2001-07-01 2001-10-01 2002-01-01 2002-04-01 2002-04-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	country <chr> Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0 0 0 1 0 1 1</fct>	predicted_prob <dbl> NA 0.127 0.182 0.195 0.229 0.302 0.268 0.219 0.223 0.196 0.123</dbl>	Predicted_Y
## ## ## ## ## ## ## ## ## ##	\$Por # A  1 2 3 4 5 6 7 8 9 10 11 12	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-10-01 2001-01-01 2001-07-01 2001-10-01 2002-01-01 2002-04-01 2002-07-01 2002-07-01 2002-10-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	country <chr> Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0 0 0 0 1 0 1 1</fct>	predicted_prob	Predicted_Y
## # # # # # # # # # # # # # # # # # #	\$Poi # A  1 2 3 4 5 6 7 8 9 10 11 12 13	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-10-01 2001-01-01 2001-04-01 2001-07-01 2001-10-01 2002-01-01 2002-04-01 2002-07-01 2002-10-01 2003-01-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	country <chr> Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0 0 1 1 1 0</fct>	predicted_prob	Predicted_Y
## # # # # # # # # # # # # # # # # # #	\$Por # A  1 2 3 4 5 6 7 8 9 10 11 12 13 14	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-07-01 2001-01-01 2001-07-01 2001-10-01 2002-01-01 2002-04-01 2002-07-01 2002-10-01 2003-01-01 2003-04-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	country <chr> Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 1</fct>	predicted_prob	Predicted_Y
## # # # # # # # # # # # # # # # # # #	\$Poi # A  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	rtugal tibble: 100 year <dttm> 2000-01-01 2000-04-01 2000-10-01 2001-01-01 2001-04-01 2001-07-01 2001-10-01 2002-01-01 2002-04-01 2002-07-01 2002-10-01 2003-01-01</dttm>	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	country <chr> Portugal Portugal</chr>	recession <fct> 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0</fct>	predicted_prob	Predicted_Y

##	17	2004-01-01	00:00:00	Portugal	0	0.0724	0
##	18	2004-04-01	00:00:00	Portugal	0	0.107	0
##	19	2004-07-01	00:00:00	Portugal	0	0.0724	0
##	20	2004-10-01	00:00:00	Portugal	0	0.0449	0
##	21	2005-01-01	00:00:00	${\tt Portugal}$	0	0.0457	0
##	22	2005-04-01	00:00:00	${\tt Portugal}$	0	0.037	0
##	23	2005-07-01	00:00:00	${\tt Portugal}$	0	0.0425	0
##	24	2005-10-01	00:00:00	${\tt Portugal}$	0	0.0425	0
##	25	2006-01-01	00:00:00	${\tt Portugal}$	0	0.0462	0
##	26	2006-04-01	00:00:00	${\tt Portugal}$	0	0.0804	0
##	27	2006-07-01	00:00:00	${\tt Portugal}$	0	0.0598	0
##	28	2006-10-01	00:00:00	${\tt Portugal}$	0	0.0558	0
##	29	2007-01-01	00:00:00	${\tt Portugal}$	0	0.0964	0
##	30	2007-04-01	00:00:00	${\tt Portugal}$	0	0.132	0
##	31	2007-07-01	00:00:00	${\tt Portugal}$	0	0.0977	0
##	32	2007-10-01	00:00:00	${\tt Portugal}$	0	0.0753	0
##	33	2008-01-01	00:00:00	${\tt Portugal}$	0	0.109	0
##	34	2008-04-01	00:00:00	${\tt Portugal}$	1	0.102	0
##	35	2008-07-01	00:00:00	${\tt Portugal}$	1	0.116	0
##	36	2008-10-01	00:00:00	${\tt Portugal}$	1	0.122	0
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##	38	2009-04-01	00:00:00	${\tt Portugal}$	0	0.128	0
##	39	2009-07-01	00:00:00	${\tt Portugal}$	0	0.0905	0
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##	41	2010-01-01	00:00:00	${\tt Portugal}$	0	0.165	0
##	42	2010-04-01	00:00:00	${\tt Portugal}$	0	0.261	0
##	43	2010-07-01	00:00:00	Portugal	0	0.249	0
##	44	2010-10-01	00:00:00	${\tt Portugal}$	0	0.391	1
##	45	2011-01-01	00:00:00	${\tt Portugal}$	1	0.513	1
##	46	2011-04-01	00:00:00	${\tt Portugal}$	1	0.923	1
##	47	2011-07-01	00:00:00	${\tt Portugal}$	1	0.962	1
##	48	2011-10-01	00:00:00	${\tt Portugal}$	1	0.962	1
##	49	2012-01-01	00:00:00	${\tt Portugal}$	1	0.991	1
##	50	2012-04-01	00:00:00	${\tt Portugal}$	1	0.788	1
##	51	2012-07-01	00:00:00	${\tt Portugal}$	1	0.596	1
##	52	2012-10-01	00:00:00	${\tt Portugal}$	1	0.341	1
##	53	2013-01-01	00:00:00	${\tt Portugal}$	0	0.148	0
##	54	2013-04-01	00:00:00	Portugal	0	0.260	0
##	55	2013-07-01	00:00:00	Portugal	0	0.525	1
##	56	2013-10-01	00:00:00	Portugal	0	0.221	0
##	57	2014-01-01	00:00:00	Portugal	0	0.075	0
##	58	2014-04-01	00:00:00	${\tt Portugal}$	0	0.0331	0
##	59	2014-07-01	00:00:00	Portugal	0	0.0649	0

##	60	2014-10-01	00:00:00	Portugal	0	0.0404	0
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##	62	2015-04-01	00:00:00	${\tt Portugal}$	0	0.0411	0
##	63	2015-07-01	00:00:00	${\tt Portugal}$	0	0.0476	0
##	64	2015-10-01	00:00:00	Portugal	0	0.035	0
##	65	2016-01-01	00:00:00	Portugal	0	0.0734	0
##	66	2016-04-01	00:00:00	Portugal	0	0.0722	0
##	67	2016-07-01	00:00:00	Portugal	0	0.0549	0
##	68	2016-10-01	00:00:00	${\tt Portugal}$	0	0.105	0
##	69	2017-01-01	00:00:00	${\tt Portugal}$	0	0.141	0
##	70	2017-04-01	00:00:00	${\tt Portugal}$	0	0.044	0
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##	72	2017-10-01	00:00:00	Portugal	0	0.0132	0
##	73	2018-01-01	00:00:00	${\tt Portugal}$	0	0.0202	0
##	74	2018-04-01	00:00:00	${\tt Portugal}$	0	0.0193	0
##	75	2018-07-01	00:00:00	${\tt Portugal}$	0	0.0219	0
##	76	2018-10-01	00:00:00	${\tt Portugal}$	0	0.0228	0
##	77	2019-01-01	00:00:00	${\tt Portugal}$	0	0.0118	0
##	78	2019-04-01	00:00:00	${\tt Portugal}$	0	0.0054	0
##	79	2019-07-01	00:00:00	${\tt Portugal}$	0	0.0029	0
##	80	2019-10-01	00:00:00	${\tt Portugal}$	0	0.0053	0
##	81	2020-01-01	00:00:00	${\tt Portugal}$	0	0.0065	0
##	82	2020-04-01	00:00:00	${\tt Portugal}$	1	0.0088	0
##	83	2020-07-01	00:00:00	${\tt Portugal}$	0	0.0044	0
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##	85	2021-01-01	00:00:00	${\tt Portugal}$	0	0.0051	0
##	86	2021-04-01	00:00:00	${\tt Portugal}$	0	0.0086	0
##	87	2021-07-01	00:00:00	${\tt Portugal}$	0	0.0042	0
##	88	2021-10-01	00:00:00	${\tt Portugal}$	0	0.0075	0
##	89	2022-01-01	00:00:00	${\tt Portugal}$	0	0.0166	0
##	90	2022-04-01	00:00:00	${\tt Portugal}$	0	0.0611	0
##	91	2022-07-01	00:00:00	${\tt Portugal}$	0	0.0174	0
##	92	2022-10-01	00:00:00	${\tt Portugal}$	0	0.042	0
##	93	2023-01-01	00:00:00	${\tt Portugal}$	0	0.0577	0
##	94	2023-04-01	00:00:00	${\tt Portugal}$	0	0.0686	0
##	95	2023-07-01	00:00:00	${\tt Portugal}$	0	0.128	0
##	96	2023-10-01	00:00:00	${\tt Portugal}$	0	0.138	0
##	97	2024-01-01	00:00:00	${\tt Portugal}$	0	0.128	0
##	98	2024-04-01	00:00:00	${\tt Portugal}$	0	0.182	0
##	99	2024-07-01	00:00:00	Portugal	0	0.135	0
##	100	2024-10-01	00:00:00	Portugal	0	0.148	0
##							

## \$Romania

##	# A	tibble: 100	) x 5				
##		year		country	recession	predicted_prob	Predicted_Y
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##	2	2000-04-01	00:00:00	Romania	0	NA	NA
##	3	2000-07-01	00:00:00	Romania	0	NA	NA
##	4	2000-10-01	00:00:00	Romania	0	NA	NA
##	5	2001-01-01	00:00:00	Romania	0	NA	NA
##	6	2001-04-01	00:00:00	${\tt Romania}$	0	NA	NA
##	7	2001-07-01	00:00:00	Romania	0	NA	NA
##	8	2001-10-01	00:00:00	${\tt Romania}$	0	NA	NA
##	9	2002-01-01	00:00:00	${\tt Romania}$	0	NA	NA
##	10	2002-04-01	00:00:00	${\tt Romania}$	0	NA	NA
##	11	2002-07-01	00:00:00	${\tt Romania}$	0	NA	NA
##	12	2002-10-01	00:00:00	Romania	0	NA	NA
##	13	2003-01-01	00:00:00	Romania	0	NA	NA
##	14	2003-04-01	00:00:00	Romania	0	NA	NA
##	15	2003-07-01	00:00:00	Romania	0	NA	NA
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##	22	2005-04-01	00:00:00	Romania	0	NA	NA
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##		2007-07-01				0.0121	0
##		2007-10-01				0.0074	0
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##		2008-04-01				0.0012	0
##		2008-07-01				0.0017	0
##		2008-10-01				0.0003	0
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##	53	2013-01-01	00:00:00	Romania	0	0.0176	0
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##	64	2015-10-01	00:00:00	Romania	1	0.0754	0
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##	71	2017-07-01	00:00:00	Romania	0	0.0819	0
##		2017-10-01				0.0681	0
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##	74	2018-04-01	00:00:00	Romania	0	0.0584	0
##		2018-07-01				0.0526	0
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##	79	2019-07-01	00:00:00	Romania	0	0.0525	0
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##	90	2022-04-01	00:00:00	Romania	0	0.0482	0
##	91	2022-07-01	00:00:00	Romania	0	0.0153	0
##	92	2022-10-01	00:00:00	Romania	0	0.0107	0
##	93	2023-01-01	00:00:00	Romania	0	0.0114	0
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## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15	2000-01-01 2000-04-01 2000-07-01 2000-10-01 2001-01-01 2001-07-01 2001-10-01 2002-01-01 2002-04-01 2002-10-01 2003-01-01 2003-04-01 2003-07-01	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	Slovakia	a 0 a 0 a 0 a 0 a 0 a 0 a 0 a 0 a 0 a 0	NA NA NA O O O O O O O O O O O O O O O O	NA NA NA O O O O O O O O O O O O O O O O
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## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	2000-01-01 2000-04-01 2000-07-01 2000-10-01 2001-01-01 2001-07-01 2001-10-01 2002-01-01 2002-04-01 2002-07-01 2002-10-01 2003-01-01 2003-04-01 2003-07-01 2003-10-01 2003-10-01	00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	Slovakia	a 0 a 0 a 0 a 0 a 0 a 0 a 0 a 0 a 0 a 0	NA NA NA O O O O O O O O O O O O O O O O	NA NA NA O O O O O O O O O O O O O O O O
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##	94	2023-04-01	00:00:00	Slovenia	a 0	0.0036	0
##	95	2023-07-01	00:00:00	Slovenia	a 0	0.0142	0
##	96	2023-10-01	00:00:00	Slovenia	a 0	0.0179	0
##	97	2024-01-01	00:00:00	Slovenia	a 0	0.0117	0
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##	100	2024-10-01	00:00:00	Slovenia	a 0	0.0717	0
##							
##	\$Spa	ain					
##	# A	tibble: 100	) x 5				
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##	11	2002-07-01	00:00:00	Spain	0	0.0497	0
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##	14	2003-04-01	00:00:00	Spain	0	0.0761	0
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##	16	2003-10-01	00:00:00	Spain	0	0.155	0
##	17	2004-01-01	00:00:00	Spain	0	0.0946	0
##	18	2004-04-01	00:00:00	Spain	0	0.161	0
##	19	2004-07-01	00:00:00	Spain	0	0.0907	0
##	20	2004-10-01	00:00:00	Spain	0	0.0369	0
##	21	2005-01-01	00:00:00	Spain	0	0.0392	0
##	22	2005-04-01	00:00:00	Spain	0	0.0215	0
##	23	2005-07-01	00:00:00	Spain	0	0.0172	0
##	24	2005-10-01	00:00:00	Spain	0	0.0222	0
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##	07 0006-07-01	00.00.00 Cmain	0	0.01	0
##		00:00:00 Spain	0	0.01 0.0041	0
##		00:00:00 Spain	0	0.0137	0
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##		00:00:00 Spain 00:00:00 Spain	0	0.0048	0
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##		00:00:00 Spain	0	0.0037	0
##		00:00:00 Spain	0	0.0047	0
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##		00:00:00 Spain	1	0.599	1
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##	63 2015-07-01	00:00:00 Spain	0	0.0889	0
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##		2023-04-01		-	0	0.004	0
##		2023-07-01		=	0	0.0077	0
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	\$Swe	adan					
##		tibble: 100	) x 5				
##		year	0	country	recession	predicted_prob	Predicted Y
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##	24	2005-10-01	00:00:00	Sweden	0	0	0
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##	41	2010-01-01	00:00:00	Sweden	0	0	0
##	42	2010-04-01	00:00:00	Sweden	0	0	0
##	43	2010-07-01	00:00:00	Sweden	0	0	0
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##		2020-04-01			0	0	0
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##		2021-07-01			0	0	0
##		2021-10-01			0	0	0
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##		2022-04-01			0	0	0
##		2022-07-01			0	0	0
##		2022-10-01			0	0	0
##	93	2023-01-01	00:00:00	Sweden	0	0	0

##	0/1	2023-04-01	00.00.00	Strodon	0	0	0
##		2023 04 01			0	0.076	0
##		2023 07 01			0	0.0124	0
##		2023 10 01			0	0.0124	0
##		2024-01-01			0	0.371	1
##		2024 04 01 2024-07-01			0	0.0604	0
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##	100	2024 10 01	00.00.00	pweden	O	0.391	1
##	\$USA	1					
##		tibble: 100	) <del>v</del> 5				
##	πл	year	7 X 3	country	recession	predicted_prob	Predicted V
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##		2001-04-01			0	0.0003	0
##		2001-07-01			0	0	0
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##	95	2023-07-01	00:00:00	USA	0	0	0
##	96	2023-10-01	00:00:00	USA	0	0	0
##	97	2024-01-01	00:00:00	USA	0	0	0
##	98	2024-04-01	00:00:00	USA	0	0	0
##	99	2024-07-01	00:00:00	USA	0	0	0
##	100	2024-10-01	00:00:00	USA	0	0.0004	0