# Predicting Childhood Mortality Based on Health and Socio-Economic Indicators

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2023-06-01

```
#loading libraries
library(tidyverse)
## — Attaching packages —
                                                            —— tidyverse
1.3.2 -
## √ ggplot2 3.4.1
                       ✓ purrr
                                 1.0.1
                     √ dplyr
## √ tibble 3.2.1
                                 1.1.0
## √ tidyr 1.3.0
                       ✓ stringr 1.5.0
## √ readr 2.1.3

√ forcats 1.0.0

## Warning: package 'tibble' was built under R version 4.2.3
## — Conflicts —
tidyverse_conflicts() —
## X dplyr::filter() masks stats::filter()
## X dplyr::lag() masks stats::lag()
library(dplyr)
library(readr)
library(caret)
## Warning: package 'caret' was built under R version 4.2.3
## Loading required package: lattice
## Attaching package: 'caret'
##
## The following object is masked from 'package:purrr':
##
##
       lift
library(RANN)
## Warning: package 'RANN' was built under R version 4.2.3
library(skimr)
## Warning: package 'skimr' was built under R version 4.2.3
library(ggplot2)
library(stringr)
library(gbm)
```

```
## Warning: package 'gbm' was built under R version 4.2.3
## Loaded gbm 2.1.8.1
#Loading the data set
mortality_rate <- read.csv('data/Mortality rate, under-5 (per 1,000 live</pre>
births).csv')
health expenditure <- read.csv('data/Current health expenditure per capita
(current US$).csv')
health expenditure per <- read.csv('data/Current health expenditure (% of
GDP).csv')
education_expenditure <- read.csv('data/Current education expenditure, total</pre>
(%).csv')
literacy_rate <- read.csv('data/literacy_rate.csv')</pre>
domestic health expenditure <- read.csv('data/Domestic private health</pre>
expenditure (% of current health expenditure).csv')
economic inequality <- read.csv('data/economic-inequality-gini-index.csv')</pre>
water_invest <- read.csv('data/Investment in water and sanitation (current</pre>
US$).csv')
vacinnation <- read.csv('data/vaccination-coverage-by-income-in.csv')</pre>
water productivity <- read.csv('data/Water productivity per cubic meter of</pre>
total freshwater withdrawal.csv')
healthcare_access <- read.csv('data/healthcare-access-and-quality-index.csv')</pre>
#selecting from year 2000 till 2020
mortality rate <- select(mortality rate, country, 'X2000':'X2020')</pre>
health expenditure <- select(health expenditure, country, 'X2000':'X2020')
health_expenditure_per<- select(health_expenditure_per, country,
'X2000': 'X2020')
literacy rate <- select(literacy rate, country, 'X2000':'X2020')</pre>
education_expenditure <- select(education_expenditure, country,</pre>
'X2000': 'X2020')
water invest <- select(water invest, country, 'X2000':'X2020')</pre>
water_productivity <- select(water_productivity, country, 'X2000':'X2020')</pre>
domestic health expenditure <- select(domestic health expenditure, country,
'X2000': 'X2020')
economic inequality <- filter(economic inequality, year >= 2000)
vacinnation <- filter(vacinnation, year >= 2000)
healthcare_access <- filter(healthcare_access, year >= 2000)
#renaming columns
mortality rate years <- select (mortality rate, 'X2000':'X2020')</pre>
names(mortality rate years) <- str sub(names(mortality rate years),2)</pre>
mortality_rate <- select(mortality_rate, country)</pre>
mortality rate <- bind cols(mortality rate, mortality rate years)</pre>
health expenditure years <- select (health expenditure, 'X2000':'X2020')
names(health_expenditure_years) <- str_sub(names(health_expenditure_years),2)</pre>
health_expenditure <- select(health_expenditure, country)</pre>
health expenditure <- bind cols(health expenditure, health expenditure years)
```

```
health expenditure per years <- select (health_expenditure_per,
'X2000': 'X2020')
names(health_expenditure_per_years) <-</pre>
str sub(names(health expenditure per years),2)
health_expenditure_per <- select(health_expenditure_per, country)</pre>
health expenditure per <- bind cols(health expenditure per,
health expenditure per years)
education expenditure years <- select (education expenditure,
'X2000': 'X2020')
names(education_expenditure_years) <-</pre>
str sub(names(education expenditure years),2)
education expenditure <- select(education expenditure, country)</pre>
education expenditure <- bind cols(education expenditure,
education expenditure years)
domestic health expenditure years <- select (domestic health expenditure,
'X2000': 'X2020')
names(domestic_health_expenditure_years) <-</pre>
str sub(names(domestic health expenditure years),2)
domestic health expenditure <- select(domestic health expenditure, country)</pre>
domestic_health_expenditure <- bind_cols(domestic_health_expenditure,</pre>
domestic health expenditure years)
literacy rate years <- select (literacy rate, 'X2000':'X2020')</pre>
names(literacy rate years) <- str sub(names(literacy rate years),2)</pre>
literacy_rate <- select(literacy_rate, country)</pre>
literacy rate <- bind cols(literacy rate, literacy rate years)</pre>
water_invest_years <- select (water_invest, 'X2000':'X2020')</pre>
names(water_invest_years) <- str_sub(names(water_invest_years),2)</pre>
water invest <- select(water invest, country)</pre>
water invest <- bind cols(water invest, water invest years)</pre>
water_productivity_years <- select (water_productivity, 'X2000':'X2020')</pre>
names(water_productivity_years) <- str_sub(names(water productivity years),2)</pre>
water_productivity <- select(water_productivity, country)</pre>
water_productivity <- bind_cols(water_productivity, water_productivity_years)</pre>
#pivoting tables
mortality_rate1 <- pivot_longer(mortality_rate, cols="2000":"2020",</pre>
                                   names to = "year",
                                   values to = "mortality rate")
health_expenditure1 <- pivot_longer(health_expenditure, cols="2000":"2020",
                                   names_to = "year",
                                   values to = "health expenditure")
health expenditure per1 <- pivot longer(health expenditure per,
cols="2000":"2020",
                                   names to = "year",
                                   values_to = "health_expenditure_per")
```

```
education expenditure1 <- pivot longer(education expenditure,
cols="2000":"2020",
                                  names_to = "year",
                                  values to = "education expenditure")
domestic_health_expenditure1 <- pivot_longer(domestic_health_expenditure,</pre>
cols="2000":"2020",
                                  names to = "year",
                                  values_to = "domestic_health_expenditure")
literacy_rate1 <- pivot_longer(literacy_rate, cols="2000":"2020",</pre>
                                  names_to = "year",
                                  values_to = "literacy_rate")
water invest1 <- pivot longer(water invest, cols="2000":"2020",
                                  names to = "year",
                                  values_to = "water_invest")
water_productivity1 <- pivot_longer(water_productivity, cols="2000":"2020",</pre>
                                  names_to = "year",
                                  values_to = "water_productivity")
#merging data
merge data <- merge(mortality rate1, health expenditure1, by = c("country",</pre>
"year"), all = TRUE)
merge_data <- merge(merge_data, health_expenditure_per1, by = c("country",</pre>
"year"), all = TRUE)
merge data <- merge(merge data, education expenditure1, by = c("country",</pre>
"year"), all = TRUE)
merge data <- merge(merge data, domestic health expenditure1, by =</pre>
c("country", "year"), all = TRUE)
merge_data <- merge(merge_data, literacy_rate1, by = c("country", "year"),</pre>
all = TRUE)
merge_data <- merge(merge_data, water_invest1, by = c("country", "year"), all</pre>
= TRUE)
merge data <- merge(merge data, water productivity1, by = c("country",</pre>
"year"), all = TRUE)
merge data <- merge(merge data, vacinnation, by = c("country", "year"), all =</pre>
TRUE)
glimpse(merge_data)
## Rows: 7,403
## Columns: 12
## $ country
                                  <chr> "Abkhazia", "Afghanistan",
"Afghanistan", ...
                                  <chr> "2015", "2000", "2001", "2002",
## $ year
"2003", "2...
## $ mortality_rate
                                  <dbl> NA, 129.3, 125.3, 121.2, 117.0, 112.8,
108...
## $ health expenditure
                                 <dbl> NA, NA, NA, 17.00759, 17.81492,
21.42946, ...
## $ health expenditure per
                                <dbl> NA, NA, NA, 9.443391, 8.941258,
9.808474, ...
```

```
## $ education expenditure <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA,
NA, NA...
## $ domestic_health_expenditure <dbl> NA, NA, NA, 85.37560, 86.06919,
84.52759, ...
                                 <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA,
## $ literacy_rate
NA, NA...
## $ water invest
                                 <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA,
NA, NA...
## $ water_productivity
                                 <dbl> NA, NA, NA, 0.3725069, 0.4054078,
0.411140...
                                 <int> NA, 24, 33, 36, 41, 50, 58, 58, 63,
## $ immunazation
64, 63...
                                 <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA,
## $ GDP_per_capita
NA, NA...
skimmed <- skim_to_wide(merge_data)</pre>
## Warning: 'skim_to_wide' is deprecated.
## Use 'skim()' instead.
## See help("Deprecated")
skimmed
```

#### Data summary

Name Piped data

Number of rows 7403 Number of columns 12

Column type frequency:

character 2 numeric 10

\_\_\_\_\_

Group variables None

#### Variable type: character

skim_variable	n_missing	complete_rate	min	max	empty	n_unique	whitespace
country	0	1	4	52	0	385	0
year	0	1	4	4	0	22	0

#### Variable type: numeric

	n_m	compl									
skim_variabl	issi	ete_ra									
e	ng	te	mean	sd	p0	p25	p50	p75	p100	hist	
mortality rat	227	0.69	40.90	4.085	1.8	9.80	2.420	6.252	2.285		

skim_variabl	issi	ete_ra								
e	ng	te	mean	sd	p0	p25	p50	p75	p100	hist
е	9			000e+	0		00e+	000e+	000e+	
				01			01	01	02	_
health_expen	247	0.67	876.3	1.567	4.4	62.73	2.406	7.461	1.170	_
diture	7		7	730e+	5		40e+	300e+	241e+	
				03			02	02	04	_
health_expen	247	0.67	6.14	2.740	1.2	4.24	5.400	7.720	2.423	
diture_per	7			000e+	6		00e+	000e+	000e+	
				00			00	00	01	_
education_ex	566	0.23	90.86	7.220	32.	88.92	9.225	9.509	1.000	
penditure	9			000e+	81		00e+	000e+	000e+	
				00			01	01	02	
domestic_he	247	0.67	42.30	1.852	0.5	28.05	4.227	5.585	8.794	
alth_expendi	7			000e+	2		00e+	000e+	000e+	<b>I</b> _
ture				01			01	01	01	
literacy_rate	574	0.22	80.21	1.719	14.	66.54	8.540	9.450	1.000	
	2			000e+	38		00e+	000e+	000e+	
				01			01	01	02	
water_invest	711	0.04	95337	1.280	0.0	9625	3.677	1.338	6.272	
	7		7952.	216e+	0	0000.	10e+	034e+	480e+	
			62	09		00	08	09	09	_
water_produ	282	0.62	56.87	1.424	0.2	6.65	1.565	4.772	3.072	■_
ctivity	7			400e+	2		00e+	000e+	790e+	
				02			01	01	03	_
immunazatio	297	0.60	86.79	1.470	19.	82.00	9.300	9.700	9.900	
n	8			000e+	00		00e+	000e+	000e+	
				01			01	01	01	
GDP_per_cap	375	0.49	19489	2.203	25	4219.	1.153	2.762	3.032	
ita	3	0.17	.65							
				04	9		04	04	05	
#including coall_countrie	s <- c	("Afgha			ia",	"Alger	ia", "A	ndorra",		.a",
"Antigua and "Argenti			", "Aust	tralia",	"Aus	stria",	"Azerb	aijan",	"Bahama	ıs",
"Bahrain", "Banglad	esh",	"Barbad	os", "Be	elarus",	"Be	lgium",	"Beliz	e","Ber	nin",	
"Bhutan", "Bolivia	" "Bo	snia an	d Herze	ovina"	"Rot	tswana"	"Rnaz	il" "Rr	runei"	
"Bulgaria", "Burkina								-	_	
"Canada",	1 050	, buru	ו נידווו	cabo ver	ue ,	Callibu	ита ,	Camer 001	ر ا	
Cariada ,										

n\_m compl

```
"Central African Republic", "Chad", "Chile", "China", "Colombia",
"Comoros",
    "Congo", "Costa Rica", "Croatia", "Cuba", "Cyprus", "Czech Republic",
"Denmark",
    "Djibouti", "Dominica", "Dominican Republic", "East Timor", "Ecuador",
"Egypt",
    "El Salvador", "Equatorial Guinea", "Eritrea", "Estonia", "Eswatini",
"Ethiopia",
    "Fiji", "Finland", "France", "Gabon", "Gambia", "Georgia", "Germany",
"Ghana",
    "Greece", "Grenada", "Guatemala", "Guinea", "Guinea-Bissau", "Guyana",
    "Honduras", "Hungary", "Iceland", "India", "Indonesia", "Iran", "Iraq",
"Ireland",
    "Israel", "Italy", "Jamaica", "Japan", "Jordan", "Kazakhstan", "Kenya",
"Kiribati",
    "Korea, North", "Korea, South", "Kosovo", "Kuwait", "Kyrgyzstan", "Laos",
"Latvia",
    "Lebanon", "Lesotho", "Liberia", "Libya", "Liechtenstein", "Lithuania",
"Luxembourg",
    "Madagascar", "Malawi", "Malaysia", "Maldives", "Mali", "Malta",
"Marshall Islands",
    "Mauritania", "Mauritius", "Mexico", "Micronesia", "Moldova", "Monaco",
"Mongolia",
    "Montenegro", "Morocco", "Mozambique", "Myanmar", "Namibia", "Nauru",
"Nepal",
    "Netherlands", "New Zealand", "Nicaragua", "Niger", "Nigeria", "North
Macedonia",
    "Norway", "Oman", "Pakistan", "Palau", "Panama", "Papua New Guinea",
"Paraguay",
    "Peru", "Philippines", "Poland", "Portugal", "Qatar", "Romania",
"Russia", "Rwanda",
    "Saint Kitts and Nevis", "Saint Lucia", "Saint Vincent and the
Grenadines", "Samoa",
    "San Marino", "Sao Tome and Principe", "Saudi Arabia", "Senegal",
"Serbia", "Seychelles",
    "Sierra Leone", "Singapore", "Slovakia", "Slovenia", "Solomon Islands",
"Somalia",
    "South Africa", "South Sudan", "Spain", "Sri Lanka", "Sudan", "Suriname",
"Sweden",
    "Switzerland", "Syria", "Taiwan", "Tajikistan", "Tanzania", "Thailand",
"Togo",
    "Tonga", "Trinidad and Tobago", "Tunisia", "Turkey", "Turkmenistan",
"Tuvalu",
    "Uganda", "Ukraine", "United Arab Emirates", "United Kingdom", "United
States",
    "Uruguay", "Uzbekistan", "Vanuatu", "Vatican City", "Venezuela",
"Vietnam",
  "Yemen", "Zambia", "Zimbabwe")
```

```
merge_data <- subset(merge_data, country %in% all_countries)</pre>
#saving the final data
write.csv(merge_data, "data/my_data.csv")
#remove rows with all na
filtered data <- merge data %>%
  select(-country, -year) %>%
  filter(rowSums(is.na(.)) != ncol(.))
# Create the knn imputation model on the training data
preProcess_missingdata_model <- preProcess(filtered_data, method='knnImpute')</pre>
preProcess_missingdata_model
## Created from 39 samples and 10 variables
## Pre-processing:
## - centered (10)
     - ignored (0)
##
##
     - 5 nearest neighbor imputation (10)
## - scaled (10)
# Use the imputation model to predict the values of missing data points
my_data_imputed <- predict(preProcess_missingdata_model, newdata =</pre>
filtered data)
anyNA(my data imputed)
## [1] FALSE
#saving the imputed data
write.csv(my_data_imputed, "data/my_data_imputed.csv")
```

What is the trend and pattern of the average mortality rate over the years and are there any significant changes or fluctuations observed?

```
# Impute missing values in the mortality_rate column using mean
imputed_data_mean <- merge_data %>%
    mutate(mortality_rate = replace_na(mortality_rate, mean(mortality_rate,
na.rm = TRUE)))

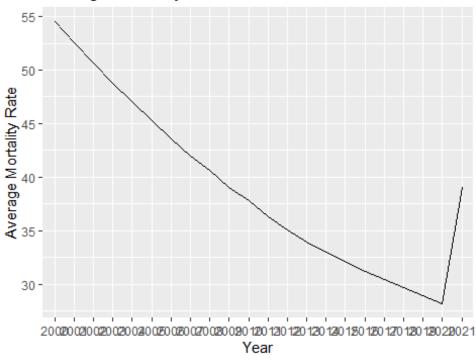
write.csv(imputed_data_mean, "data/imputed_data_mean.csv")

# Aggregate data by year and calculate the average mortality rate
avg_mortality <- aggregate(mortality_rate ~ year, data = imputed_data_mean,
FUN = mean)

# Create the line plot
ggplot(avg_mortality, aes(x = year, y = mortality_rate, group = 1)) +
    geom_line() +
    xlab("Year") +</pre>
```

```
ylab("Average Mortality Rate") +
ggtitle("Average Mortality Rate over Years")
```

### Average Mortality Rate over Years



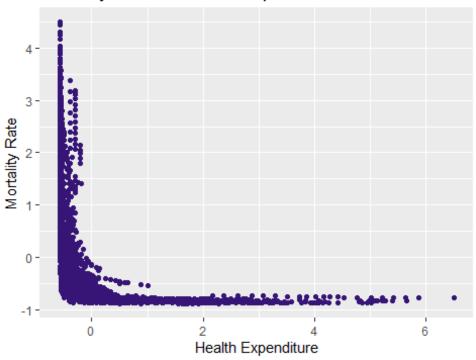
The plot depicts the

average mortality rate over a range of years. The x-axis represents the years, while the y-axis represents the average mortality rate. The plot reveals a trend of the average mortality rate over time. In the earlier years, the average mortality rate was relatively high, gradually declining in subsequent years. However, there was a slight increase in the average mortality rate in 2018. Also, the plot shows a significant and noticeable increase in the average mortality rate in 2020. The sudden surge in the average mortality rate suggests a critical event or influential factor that impacted the population's health during this period.

What is the relationship between Mortality Rate and Health Expenditure?

```
ggplot(data=my_data_imputed,mapping= aes(x = health_expenditure, y =
mortality_rate)) +
  geom_point(color="#361576") +
  xlab("Health Expenditure") +
  ylab("Mortality Rate") +
  ggtitle("Mortality Rate vs. Health Expenditure")
```

# Mortality Rate vs. Health Expenditure



The plot showcases

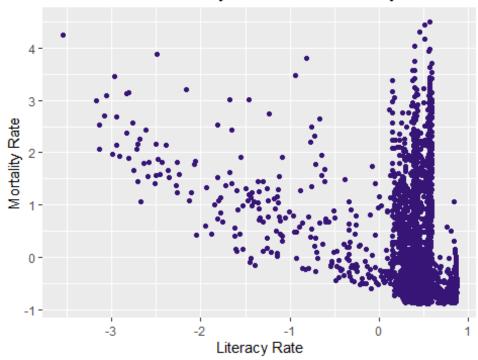
the relationship between Mortality Rate and Health Expenditure. The x-axis represents Health Expenditure, while the y-axis represents Mortality Rate. The plot demonstrates the varying levels of Mortality Rate observed at different levels of Health Expenditure.

Upon closer examination, it becomes apparent that there is an inverse relationship between Mortality Rate and Health Expenditure. As Health Expenditure increases, Mortality Rate tends to decrease, suggesting a potential link between higher healthcare investment and improved health outcomes. However, it is worth noting that this relationship may not be entirely linear, as there are instances where the Mortality Rate remains relatively high despite higher Health Expenditure.

How does Literacy Rate affects Mortality Rate?

```
ggplot(data = my_data_imputed, mapping=aes(x = literacy_rate, y =
mortality_rate)) +
  geom_point(color="#361576") +
  xlab("Literacy Rate") +
  ylab("Mortality Rate") +
  ggtitle("Distribution of Mortality Rate across Literacy Rates")
```

# Distribution of Mortality Rate across Literacy Rates



The plot illustrates

the distribution of Mortality Rate across different levels of Literacy Rates. The x-axis represents the Literacy Rates, while the y-axis represents the Mortality Rate.

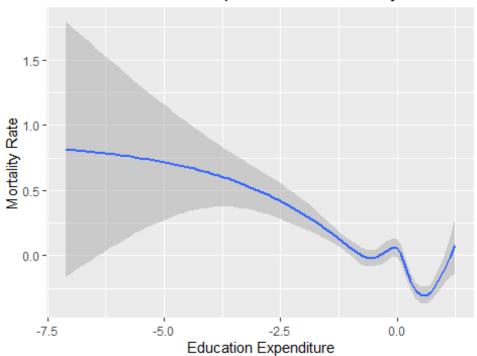
Examining the plot, it is evident that there is a discernible pattern in the distribution of Mortality Rate with respect to Literacy Rates. As Literacy Rates increase, there is a tendency for the Mortality Rate to decrease. This suggests a potential correlation between higher literacy levels and lower Mortality Rates, indicating that education and literacy may play a role in improving overall health outcomes.

However, it is important to note that the relationship between Mortality Rate and Literacy Rate may not be solely determined by literacy itself. Other confounding factors such as healthcare access, socioeconomic status, and healthcare utilization may also contribute to the observed distribution.

What is the effect of Education Expenditure on Mortality Rate?

```
ggplot(data=my_data_imputed, mapping= aes(x = education_expenditure, y =
mortality_rate)) +
  geom_smooth() +
  xlab("Education Expenditure") +
  ylab("Mortality Rate") +
  ggtitle("Effect of Education Expenditure on Mortality Rate")
## `geom_smooth()` using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'
```

# Effect of Education Expenditure on Mortality Rate



The plot visually tality Rate. The x-axis

represents the relationship between Education Expenditure and Mortality Rate. The x-axis represents Education Expenditure, while the y-axis represents Mortality Rate.

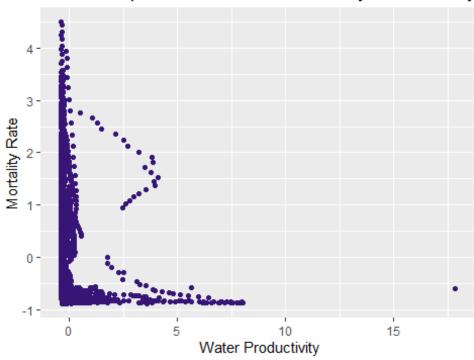
Upon examination of the plot, it is evident that there is an observable pattern indicating the effect of Education Expenditure on Mortality Rate. As Education Expenditure increases, there is a corresponding decrease in Mortality Rate. This suggests a potentially significant and meaningful relationship between higher investments in education and improved health outcomes.

The plot demonstrates that allocating resources towards education expenditure may play a crucial role in reducing Mortality Rate. However, it is important to note that this relationship may not be solely determined by education expenditure itself. As we observe the significant increase of the mortality rate, other factors such as healthcare infrastructure, socioeconomic conditions, and healthcare accessibility might also influence the observed relationship.

What is the relationship between Water Productivity and Mortality Rate?

```
ggplot(data=my_data_imputed, mapping = aes(x = water_productivity, y =
mortality_rate)) +
  geom_point(color = "#361576") +
  xlab(" Water Productivity") +
  ylab("Mortality Rate") +
  ggtitle("Relationship between Water Productivity and Mortality Rate")
```

# Relationship between Water Productivity and Mortality



The plot visually

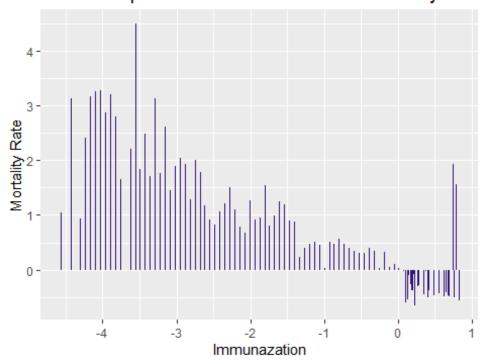
represents the relationship between Water Productivity and Mortality Rate. The x-axis represents Water Productivity, while the y-axis represents Mortality Rate.

Upon examining the plot, it becomes apparent that there is a discernible pattern suggesting a relationship between Water Productivity and Mortality Rate. As Water Productivity increases, there is a tendency for the Mortality Rate to decrease. This implies that higher efficiency and productivity in water usage may be associated with improved health outcomes and reduced Mortality Rates.

What is the relationship between Immunazation and Mortality Rate?

```
ggplot(data= my_data_imputed, mapping = aes(x = immunazation,y =
mortality_rate))+
  geom_bar(stat = "summary", fun = "mean",color="#361576")+
  xlab("Immunazation") +
  ylab("Mortality Rate") +
  ggtitle("Relationship between Immunazation and Mortality Rate")
```

#### Relationship between Immunazation and Mortality Rate



The plot visually

represents the relationship between Immunization and Mortality Rate. The x-axis represents the level of Immunization, while the y-axis represents the Mortality Rate.

Upon examining the plot, a clear pattern emerges, indicating a relationship between Immunization and Mortality Rate. As the level of Immunization increases, there is a corresponding decrease in the Mortality Rate. This suggests that higher rates of Immunization may be associated with lower Mortality Rates, highlighting the potential protective effect of immunization against preventable diseases.

```
# Store X and Y for later use.
X = my_data_imputed[, 2:10]
y = my_data_imputed$mortality_rate

# Set the seed for reproducibility
set.seed(123)

#train test split
train_indices <- createDataPartition(y, p = 0.8, list = FALSE)
X_train <- X[train_indices,]
y_train <- y[train_indices]
X_test <- X[-train_indices,]
y_test <- y[-train_indices]

# Create and fit the Linear regression model
model_LR <- train(X_train, y_train, method = "lm")

# Make predictions on the test set</pre>
```

```
y pred LR <- predict(model LR, X test)</pre>
# Evaluate the model using mean squared error
mse_LR <- mean((y_test - y_pred_LR)^2)</pre>
# Calculate R-squared
r2_LR <- cor(y_pred_LR, y_test)^2
# Create and fit the decison tree model
model tree <- train(X train, y train, method = "rpart")</pre>
## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =
trainInfo,
## : There were missing values in resampled performance measures.
# Make predictions on the test set
y_pred_tree <- predict(model_tree, X_test)</pre>
# Evaluate the model using mean squared error
mse_tree <- mean((y_test - y_pred_tree)^2)</pre>
# Calculate R-squared
r2 tree <- cor(y pred tree, y test)^2
# Create and fit the gradiant boost model
model_gbm <- train(X_train, y_train, method = "gbm")</pre>
## Iter
          TrainDeviance
                            ValidDeviance
                                             StepSize
                                                         Improve
##
        1
                  0.7803
                                       nan
                                               0.1000
                                                          0.0713
##
        2
                  0.7223
                                               0.1000
                                                          0.0571
                                       nan
##
        3
                  0.6753
                                               0.1000
                                                          0.0489
                                       nan
##
        4
                  0.6342
                                               0.1000
                                                          0.0367
                                       nan
        5
##
                  0.5963
                                               0.1000
                                                          0.0402
                                       nan
##
        6
                                                          0.0340
                  0.5628
                                       nan
                                               0.1000
        7
##
                  0.5328
                                               0.1000
                                                          0.0286
                                       nan
##
        8
                  0.5055
                                       nan
                                               0.1000
                                                          0.0279
##
        9
                                               0.1000
                                                          0.0201
                  0.4828
                                       nan
##
       10
                  0.4612
                                               0.1000
                                                          0.0202
                                       nan
##
       20
                  0.3258
                                               0.1000
                                                          0.0086
                                       nan
##
       40
                  0.2398
                                               0.1000
                                                          0.0019
                                       nan
##
       60
                  0.2196
                                               0.1000
                                                          0.0003
                                       nan
##
       80
                  0.2099
                                               0.1000
                                                          0.0004
                                       nan
##
      100
                  0.2035
                                               0.1000
                                                          0.0001
                                       nan
##
      120
                  0.1992
                                               0.1000
                                                         -0.0000
                                       nan
##
      140
                  0.1956
                                       nan
                                               0.1000
                                                          0.0002
##
      150
                  0.1941
                                               0.1000
                                                         -0.0002
                                       nan
##
                            ValidDeviance
## Iter
          TrainDeviance
                                             StepSize
                                                         Improve
        1
##
                  0.7659
                                               0.1000
                                                          0.0844
                                       nan
        2
                                                          0.0733
##
                  0.6942
                                       nan
                                               0.1000
        3
                  0.6277
                                                          0.0634
##
                                       nan
                                               0.1000
```

##	4	0.5732	nan	0.1000	0.0531
##	5	0.5260	nan	0.1000	0.0451
##	6	0.4898	nan	0.1000	0.0369
##	7	0.4558	nan	0.1000	0.0335
##	8	0.4228	nan	0.1000	0.0290
##	9	0.3974	nan	0.1000	0.0235
##	10	0.3747	nan	0.1000	0.0217
##	20	0.2544	nan	0.1000	0.0061
##	40	0.1958	nan	0.1000	0.0004
##	60	0.1705	nan	0.1000	0.0007
##	80	0.1583	nan	0.1000	0.0001
##	100	0.1470	nan	0.1000	0.0000
##	120	0.1379	nan	0.1000	0.0008
##	140	0.1274	nan	0.1000	-0.0000
##	150	0.1240	nan	0.1000	0.0001
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7514	nan	0.1000	0.0978
##	2	0.6712	nan	0.1000	0.0785
##	3	0.6010	nan	0.1000	0.0615
##	4	0.5439	nan	0.1000	0.0535
##	5	0.4922	nan	0.1000	0.0522
##	6	0.4527	nan	0.1000	0.0410
##	7	0.4181	nan	0.1000	0.0311
##	8	0.3893	nan	0.1000	0.0265
##	9	0.3625	nan	0.1000	0.0229
##	10	0.3366	nan	0.1000	0.0229
##	20	0.2219	nan	0.1000	0.0055
##	40	0.1654	nan	0.1000	0.0005
##	60	0.1419	nan	0.1000	0.0003
##	80	0.1262	nan	0.1000	0.0018
##	100	0.1153	nan	0.1000	0.0001
##	120	0.1068	nan	0.1000	-0.0000
##	140	0.0987	nan	0.1000	-0.0001
##	150	0.0959	nan	0.1000	0.0000
##		3.0555	iidii	3.2000	2.0000
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7879	nan	0.1000	0.0692
##	2	0.7283	nan	0.1000	0.0568
##	3	0.6765	nan	0.1000	0.0453
##	4	0.6375	nan	0.1000	0.0363
##	5	0.5964	nan	0.1000	0.0398
##	6	0.5620	nan	0.1000	0.0337
##	7	0.5319	nan	0.1000	0.0299
##	8	0.5020	nan	0.1000	0.0291
##	9	0.4770	nan	0.1000	0.0231
##	10	0.4564	nan	0.1000	0.0223
##	20	0.3237	nan	0.1000	0.0137
##	40	0.2473	nan	0.1000	0.0073
##	60	0.2268	nan	0.1000	0.0001
π#	00	0.2200	IIdII	0. TOO	O. OOOT

##	80	0.2162	nan	0.1000	-0.0000	
##	100	0.2099	nan	0.1000	0.0001	
##	120	0.2056	nan	0.1000	-0.0008	
##	140	0.2026	nan	0.1000	0.0002	
##	150	0.2013	nan	0.1000	0.0001	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7723	nan	0.1000	0.0902	
##	2	0.7048	nan	0.1000	0.0693	
##	3	0.6430	nan	0.1000	0.0657	
##	4	0.5874	nan	0.1000	0.0529	
##	5	0.5408	nan	0.1000	0.0448	
##	6	0.4978	nan	0.1000	0.0437	
##	7	0.4626	nan	0.1000	0.0362	
##	8	0.4321	nan	0.1000	0.0304	
##	9	0.4060	nan	0.1000	0.0264	
##	10	0.3834	nan	0.1000	0.0243	
##	20	0.2570	nan	0.1000	0.0067	
##	40	0.1898	nan	0.1000	0.0014	
##	60	0.1656	nan	0.1000	0.0005	
##	80	0.1539	nan	0.1000	0.0002	
##	100	0.1411	nan	0.1000	-0.0000	
##	120	0.1342	nan	0.1000	-0.0001	
##	140	0.1284	nan	0.1000	0.0000	
##	150	0.1260	nan	0.1000	0.0001	
##						
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7656	nan	0.1000	0.0981	
##	2	0.6878	nan	0.1000	0.0801	
##	3	0.6229	nan	0.1000	0.0616	
##	4	0.5637	nan	0.1000	0.0568	
##	5	0.5147	nan	0.1000	0.0497	
##	6	0.4739	nan	0.1000	0.0389	
##	7	0.4345	nan	0.1000	0.0392	
##	8	0.4020	nan	0.1000	0.0318	
##	9	0.3755	nan	0.1000	0.0261	
##	10	0.3505	nan	0.1000	0.0240	
##	20	0.2310	nan	0.1000	0.0059	
##	40	0.1668	nan	0.1000	0.0012	
##	60	0.1452	nan	0.1000	0.0007	
##	80	0.1303	nan	0.1000	-0.0001	
##	100	0.1176	nan	0.1000	0.0002	
##	120	0.1085	nan	0.1000	-0.0002	
##	140	0.1007	nan	0.1000	0.0001	
##	150	0.0975	nan	0.1000	0.0000	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8103	nan	0.1000	0.0763	
##	2	0.7459	nan	0.1000	0.0633	
##	3	0.6922	nan	0.1000	0.0554	

##	4	0.6460	nan	0.1000	0.0479
##	5	0.6048	nan	0.1000	0.0389
##	6	0.5689	nan	0.1000	0.0363
##	7	0.5402	nan	0.1000	0.0295
##	8	0.5118	nan	0.1000	0.0289
##	9	0.4865	nan	0.1000	0.0241
##	10	0.4658	nan	0.1000	0.0198
##	20	0.3237	nan	0.1000	0.0082
##	40	0.2375	nan	0.1000	0.0012
##	60	0.2178	nan	0.1000	0.0005
##	80	0.2084	nan	0.1000	0.0005
##	100	0.2018	nan	0.1000	-0.0001
##	120	0.1964	nan	0.1000	-0.0001
##	140	0.1920	nan	0.1000	0.0001
##	150	0.1903	nan	0.1000	0.0001
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7928	nan	0.1000	0.0942
##	2	0.7166	nan	0.1000	0.0753
##	3	0.6473	nan	0.1000	0.0690
##	4	0.5929	nan	0.1000	0.0488
##	5	0.5435	nan	0.1000	0.0488
##	6	0.5044	nan	0.1000	0.0375
##	7	0.4669	nan	0.1000	0.0365
##	8	0.4370	nan	0.1000	0.0282
##	9	0.4152	nan	0.1000	0.0232
##	10	0.3902	nan	0.1000	0.0217
##	20	0.2580	nan	0.1000	0.0069
##	40	0.1925	nan	0.1000	0.0005
##	60	0.1727	nan	0.1000	0.0013
##	80	0.1587	nan	0.1000	-0.0000
##	100	0.1505	nan	0.1000	0.0000
##	120	0.1416	nan	0.1000	0.0001
##	140	0.1339	nan	0.1000	0.0001
##	150	0.1339	nan	0.1000	0.0001
##	100	0.1303	IIaii	0.1000	0.0004
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7853	nan	0.1000	0.1012
##	2	0.6985	nan	0.1000	0.0837
##	3	0.6276	nan	0.1000	0.0037
##	4	0.5673	nan	0.1000	0.0558
##	5	0.5164	nan	0.1000	0.0513
##	6	0.4724		0.1000	0.0313
##	7	0.4343	nan	0.1000	0.0410
##	8	0.4343	nan		
	9		nan	0.1000	0.0312
##		0.3761	nan	0.1000	0.0262
##	10	0.3524	nan	0.1000	0.0250
##	20	0.2270	nan	0.1000	0.0054
##	40	0.1635	nan	0.1000	0.0009
##	60	0.1441	nan	0.1000	0.0006

##	80	0.1320	nan	0.1000	-0.0001
##	100	0.1198	nan	0.1000	0.0002
##	120	0.1099	nan	0.1000	0.0001
##	140	0.1012	nan	0.1000	0.0001
##	150	0.0975	nan	0.1000	0.0004
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8401	nan	0.1000	0.0744
##	2	0.7762	nan	0.1000	0.0634
##	3	0.7194	nan	0.1000	0.0573
##	4	0.6723	nan	0.1000	0.0476
##	5	0.6318	nan	0.1000	0.0395
##	6	0.5909	nan	0.1000	0.0393
##	7	0.5588	nan	0.1000	0.0327
##	8	0.5288	nan	0.1000	0.0284
##	9	0.5024	nan	0.1000	0.0260
##	10	0.4808	nan	0.1000	0.0214
##	20	0.3381	nan	0.1000	0.0090
##	40	0.2509	nan	0.1000	0.0015
##	60	0.2285	nan	0.1000	0.0004
##	80	0.2183	nan	0.1000	0.0001
##	100	0.2106	nan	0.1000	0.0001
##	120	0.2056	nan	0.1000	-0.0001
##	140	0.2014	nan	0.1000	0.0002
##	150	0.1995	nan	0.1000	-0.0000
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8227	nan	0.1000	0.0898
##	2	0.7461	nan	0.1000	0.0779
##	3	0.6778	nan	0.1000	0.0687
##	4	0.6206	nan	0.1000	0.0563
##	5	0.5716	nan	0.1000	0.0489
##	6	0.5314	nan	0.1000	0.0407
##	7	0.4914	nan	0.1000	0.0384
##	8	0.4568	nan	0.1000	0.0323
##	9	0.4283	nan	0.1000	0.0279
##	10	0.4040	nan	0.1000	0.0235
##	20	0.2698	nan	0.1000	0.0053
##	40	0.1993	nan	0.1000	0.0012
##	60	0.1779	nan	0.1000	0.0003
##	80	0.1637	nan	0.1000	0.0002
##	100	0.1541	nan	0.1000	-0.0000
##	120	0.1437	nan	0.1000	-0.0001
##	140	0.1359	nan	0.1000	-0.0001
##	150	0.1334	nan	0.1000	0.0001
##	150	0.1554	nan	0.1000	0.0001
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8128	nan	0.1000	0.0996
##	2	0.7252	nan	0.1000	0.0860
##	3	0.6536	nan	0.1000	0.0368
шт	,	0.0550	Hall	0.1000	0.0700

##	4	0.5911	nan	0.1000	0.0564	
##	5	0.5383	nan	0.1000	0.0558	
##	6	0.4923	nan	0.1000	0.0404	
##	7	0.4551	nan	0.1000	0.0348	
##	8	0.4223	nan	0.1000	0.0340	
##	9	0.3920	nan	0.1000	0.0277	
##	10	0.3671	nan	0.1000	0.0236	
##	20	0.2328	nan	0.1000	0.0060	
##	40	0.1652	nan	0.1000	0.0010	
##	60	0.1418	nan	0.1000	0.0004	
##	80	0.1296	nan	0.1000	-0.0002	
##	100	0.1215	nan	0.1000	0.0003	
##	120	0.1130	nan	0.1000	0.0004	
##	140	0.1038	nan	0.1000	-0.0003	
##	150	0.1005	nan	0.1000	0.0001	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8846	nan	0.1000	0.0846	
##	2	0.8121	nan	0.1000	0.0708	
##	3	0.7518	nan	0.1000	0.0614	
##	4	0.6984	nan	0.1000	0.0518	
##	5	0.6557	nan	0.1000	0.0446	
##	6	0.6129	nan	0.1000	0.0425	
##	7	0.5732	nan	0.1000	0.0373	
##	8	0.5413	nan	0.1000	0.0328	
##	9	0.5120	nan	0.1000	0.0303	
##	10	0.4864	nan	0.1000	0.0253	
##	20	0.3230	nan	0.1000	0.0095	
##	40	0.2259	nan	0.1000	0.0009	
##	60	0.2036	nan	0.1000	0.0002	
##	80	0.1951	nan	0.1000	0.0003	
##	100	0.1899	nan	0.1000	-0.0000	
##	120	0.1857	nan	0.1000	0.0002	
##	140	0.1828	nan	0.1000	-0.0000	
##	150	0.1813	nan	0.1000	-0.0002	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8645	nan	0.1000	0.0949	
##	2	0.7758	nan	0.1000	0.0920	
##	3	0.7040	nan	0.1000	0.0691	
##	4	0.6412	nan	0.1000	0.0609	
##	5	0.5878	nan	0.1000	0.0553	
##	6	0.5364	nan	0.1000	0.0462	
##	7	0.4928	nan	0.1000	0.0416	
##	8	0.4550	nan	0.1000	0.0351	
##	9	0.4245	nan	0.1000	0.0288	
##	10	0.3969	nan	0.1000	0.0276	
##	20	0.2464	nan	0.1000	0.0069	
##	40	0.1819	nan	0.1000	-0.0002	
##	60	0.1616	nan	0.1000	0.0002	
		0.2020		5.2000	2.3000	

##	80	0.1509	nan	0.1000	0.0001	
##	100	0.1403	nan	0.1000	0.0000	
##	120	0.1316	nan	0.1000	0.0002	
##	140	0.1254	nan	0.1000	0.0002	
##	150	0.1220	nan	0.1000	0.0002	
##						
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8532	nan	0.1000	0.1111	
##	2	0.7586	nan	0.1000	0.0897	
##	3	0.6794	nan	0.1000	0.0788	
##	4	0.6092	nan	0.1000	0.0730	
##	5	0.5489	nan	0.1000	0.0573	
##	6	0.5008	nan	0.1000	0.0449	
##	7	0.4582	nan	0.1000	0.0432	
##	8	0.4194	nan	0.1000	0.0348	
##	9	0.3885	nan	0.1000	0.0315	
##	10	0.3583	nan	0.1000	0.0293	
##	20	0.2220	nan	0.1000	0.0054	
##	40	0.1538	nan	0.1000	0.0032	
##	60	0.1335	nan	0.1000	0.0004	
##	80	0.1202	nan	0.1000	0.0001	
##	100	0.1099	nan	0.1000	0.0004	
##	120	0.1005	nan	0.1000	0.0003	
##	140	0.0934	nan	0.1000	0.0002	
##	150	0.0905	nan	0.1000	-0.0001	
##						
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8346	nan	0.1000	0.0747	
##	2	0.7723	nan	0.1000	0.0601	
##	3	0.7200	nan	0.1000	0.0518	
##	4	0.6751	nan	0.1000	0.0406	
##	5	0.6331	nan	0.1000	0.0421	
##	6	0.5962	nan	0.1000	0.0346	
##	7	0.5661	nan	0.1000	0.0289	
##	8	0.5374	nan	0.1000	0.0286	
##	9	0.5133	nan	0.1000	0.0243	
##	10	0.4909	nan	0.1000	0.0213	
##	20	0.3437	nan	0.1000	0.0074	
##	40	0.2543	nan	0.1000	0.0023	
##	60	0.2303	nan	0.1000	0.0008	
##	80	0.2201	nan	0.1000	0.0003	
##	100	0.2142	nan	0.1000	-0.0002	
##	120	0.2102	nan	0.1000	0.0000	
##	140	0.2069	nan	0.1000	0.0000	
##	150	0.2054	nan	0.1000	-0.0007	
##					_	
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8174	nan	0.1000	0.0805	
##	2	0.7358	nan	0.1000	0.0834	
##	3	0.6704	nan	0.1000	0.0633	

##	4	0.6152	nan	0.1000	0.0540
##	5	0.5659	nan	0.1000	0.0505
##	6	0.5190	nan	0.1000	0.0443
##	7	0.4845	nan	0.1000	0.0320
##	8	0.4556	nan	0.1000	0.0281
##	9	0.4299	nan	0.1000	0.0255
##	10	0.4054	nan	0.1000	0.0232
##	20	0.2689	nan	0.1000	0.0059
##	40	0.1991	nan	0.1000	0.0015
##	60	0.1761	nan	0.1000	0.0007
##	80	0.1609	nan	0.1000	0.0004
##	100	0.1498	nan	0.1000	0.0002
##	120	0.1418	nan	0.1000	-0.0000
##	140	0.1335	nan	0.1000	0.0001
##	150	0.1302	nan	0.1000	-0.0001
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8042	nan	0.1000	0.0984
##	2	0.7173	nan	0.1000	0.0884
##	3	0.6465	nan	0.1000	0.0726
##	4	0.5812	nan	0.1000	0.0608
##	5	0.5271	nan	0.1000	0.0490
##	6	0.4845	nan	0.1000	0.0430
##	7	0.4479	nan	0.1000	0.0331
##	8	0.4164	nan	0.1000	0.0314
##	9	0.3889	nan	0.1000	0.0253
##	10	0.3652	nan	0.1000	0.0233
##	20	0.2350	nan	0.1000	0.0064
##	40	0.1736	nan	0.1000	0.0005
##	60	0.1498	nan	0.1000	0.0005
##	80	0.1345	nan	0.1000	0.0009
##	100	0.1212	nan	0.1000	0.0002
##	120	0.1108	nan	0.1000	0.0001
##	140	0.1034	nan	0.1000	0.0001
##	150	0.1002	nan	0.1000	0.0001
##		0.1002		2.200	
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7692	nan	0.1000	0.0696
##	2	0.7068	nan	0.1000	0.0592
##	3	0.6562	nan	0.1000	0.0511
##	4	0.6141	nan	0.1000	0.0398
##	5	0.5783	nan	0.1000	0.0318
##	6	0.5453	nan	0.1000	0.0342
##	7	0.5145	nan	0.1000	0.0307
##	8	0.4894	nan	0.1000	0.0248
##	9	0.4679	nan	0.1000	0.0243
##	10	0.4463	nan	0.1000	0.0199
##	20	0.3169	nan	0.1000	0.0133
##	40	0.2357	nan	0.1000	0.0077
##	60	0.2134	nan	0.1000	0.0010
ит	00	0.2134	nan	0.1000	0.0002

##	80	0.2041	nan	0.1000	0.0002
##	100	0.1985	nan	0.1000	-0.0001
##	120	0.1945	nan	0.1000	-0.0001
##	140	0.1913	nan	0.1000	-0.0001
##	150	0.1897	nan	0.1000	-0.0000
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7553	nan	0.1000	0.0838
##	2	0.6858	nan	0.1000	0.0688
##	3	0.6292	nan	0.1000	0.0561
##	4	0.5766	nan	0.1000	0.0548
##	5	0.5316	nan	0.1000	0.0432
##	6	0.4930	nan	0.1000	0.0409
##	7	0.4583	nan	0.1000	0.0340
##	8	0.4312	nan	0.1000	0.0246
##	9	0.4050	nan	0.1000	0.0261
##	10	0.3827	nan	0.1000	0.0210
##	20	0.2544	nan	0.1000	0.0070
##	40	0.1932	nan	0.1000	0.0013
##	60	0.1701	nan	0.1000	0.0006
##	80	0.1568	nan	0.1000	0.0007
##	100	0.1471	nan	0.1000	-0.0003
##	120	0.1377	nan	0.1000	0.0000
##	140	0.1298	nan	0.1000	0.0006
##	150	0.1271	nan	0.1000	0.0001
##					
##		TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7451	nan	0.1000	0.0929
##	2	0.6656	nan	0.1000	0.0804
##	3	0.5999	nan	0.1000	0.0639
##	4	0.5437	nan	0.1000	0.0545
##	5	0.4942	nan	0.1000	0.0472
##	6	0.4511	nan	0.1000	0.0434
##	7	0.4154	nan	0.1000	0.0368
##	8	0.3847	nan	0.1000	0.0291
##	9	0.3585	nan	0.1000	0.0249
##	10	0.3351	nan	0.1000	0.0200
##	20	0.2206	nan	0.1000	0.0062
##	40	0.1591	nan	0.1000	0.0016
##	60	0.1384	nan	0.1000	0.0007
##	80	0.1234	nan	0.1000	0.0006
##	100	0.1123	nan	0.1000	-0.0002
##	120	0.1047	nan	0.1000	0.0001
##	140	0.0965	nan	0.1000	-0.0000
##	150	0.0928	nan	0.1000	0.0000
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8071	nan	0.1000	0.0722
##	2	0.7437	nan	0.1000	0.0595
##	3	0.6902	nan	0.1000	0.0537

##	4	0.6420	nan	0.1000	0.0460	
##	5	0.6051	nan	0.1000	0.0369	
##	6	0.5732	nan	0.1000	0.0319	
##	7	0.5438	nan	0.1000	0.0288	
##	8	0.5126	nan	0.1000	0.0300	
##	9	0.4890	nan	0.1000	0.0213	
##	10	0.4666	nan	0.1000	0.0200	
##	20	0.3253	nan	0.1000	0.0099	
##	40	0.2347	nan	0.1000	0.0011	
##	60	0.2119	nan	0.1000	0.0002	
##	80	0.2026	nan	0.1000	0.0003	
##	100	0.1956	nan	0.1000	0.0004	
##	120	0.1915	nan	0.1000	-0.0000	
##	140	0.1878	nan	0.1000	-0.0002	
##	150	0.1865	nan	0.1000	-0.0001	
##						
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7880	nan	0.1000	0.0917	
##	2	0.7121	nan	0.1000	0.0701	
##	3	0.6471	nan	0.1000	0.0632	
##	4	0.5895	nan	0.1000	0.0563	
##	5	0.5433	nan	0.1000	0.0438	
##	6	0.4995	nan	0.1000	0.0405	
##	7	0.4636	nan	0.1000	0.0365	
##	8	0.4318	nan	0.1000	0.0287	
##	9	0.4042	nan	0.1000	0.0266	
##	10	0.3811	nan	0.1000	0.0206	
##	20	0.2511	nan	0.1000	0.0058	
##	40	0.1891	nan	0.1000	0.0012	
##	60	0.1684	nan	0.1000	0.0008	
##	80	0.1543	nan	0.1000	-0.0002	
##	100	0.1447	nan	0.1000	-0.0002	
##	120	0.1374	nan	0.1000	-0.0003	
##	140	0.1294	nan	0.1000	0.0000	
##	150	0.1258	nan	0.1000	0.0001	
##						
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7794	nan	0.1000	0.1019	
##	2	0.6958	nan	0.1000	0.0801	
##	3	0.6194	nan	0.1000	0.0733	
##	4	0.5589	nan	0.1000	0.0596	
##	5	0.5072	nan	0.1000	0.0492	
##	6	0.4626	nan	0.1000	0.0430	
##	7	0.4258	nan	0.1000	0.0357	
##	8	0.3950	nan	0.1000	0.0293	
##	9	0.3686	nan	0.1000	0.0240	
##	10	0.3442	nan	0.1000	0.0240	
##	20	0.2192	nan	0.1000	0.0041	
##	40	0.1586	nan	0.1000	0.0041	
##	60	0.1394	nan	0.1000	0.0011	
	00	0.1004	Hall	0.1000	0.0000	

##	80	0.1270	nan	0.1000	0.0003
##	100	0.1165	nan	0.1000	-0.0003
##	120	0.1071	nan	0.1000	0.0004
##	140	0.0998	nan	0.1000	-0.0003
##	150	0.0965	nan	0.1000	0.0001
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8015	nan	0.1000	0.0742
##	2	0.7359	nan	0.1000	0.0625
##	3	0.6831	nan	0.1000	0.0510
##	4	0.6355	nan	0.1000	0.0489
##	5	0.5971	nan	0.1000	0.0378
##	6	0.5630	nan	0.1000	0.0344
##	7	0.5310	nan	0.1000	0.0305
##	8	0.5012	nan	0.1000	0.0276
##	9	0.4771	nan	0.1000	0.0245
##	10	0.4515	nan	0.1000	0.0241
##	20	0.3150	nan	0.1000	0.0093
##	40	0.2336	nan	0.1000	0.0013
##	60	0.2135	nan	0.1000	-0.0002
##	80	0.2045	nan	0.1000	0.0002
##	100	0.1987	nan	0.1000	0.0002
##	120	0.1948	nan	0.1000	0.0001
##	140	0.1921	nan	0.1000	-0.0000
##	150	0.1908	nan	0.1000	-0.0000
##				,	
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7880	nan	0.1000	0.0868
##	2	0.7079	nan	0.1000	0.0795
##	3	0.6415	nan	0.1000	0.0695
##	4	0.5906	nan	0.1000	0.0517
##	5	0.5432	nan	0.1000	0.0467
##	6	0.5001	nan	0.1000	0.0455
##	7	0.4610	nan	0.1000	0.0379
##	8	0.4277	nan	0.1000	0.0325
##	9	0.3990	nan	0.1000	0.0305
##	10	0.3764	nan	0.1000	0.0208
##	20	0.2480	nan	0.1000	0.0065
##	40	0.1912	nan	0.1000	0.0005
##	60	0.1712	nan	0.1000	0.0004
##	80	0.1605	nan	0.1000	-0.0007
##	100	0.1497	nan	0.1000	0.0001
##	120	0.1435	nan	0.1000	0.0000
##	140	0.1366	nan	0.1000	0.0003
##	150	0.1334	nan	0.1000	0.0003
##	150	0.1554	nan	0.1000	0.0003
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7766	nan	0.1000	0.0955
##	2	0.6932	nan	0.1000	0.0868
##	3	0.6191	nan	0.1000	0.0308
шт	,	0.0171	Hall	0.1000	0.0770

##	4	0.5578	nan	0.1000	0.0597
##	5	0.5060	nan	0.1000	0.0463
##	6	0.4615	nan	0.1000	0.0409
##	7	0.4229	nan	0.1000	0.0372
##	8	0.3900	nan	0.1000	0.0328
##	9	0.3627	nan	0.1000	0.0241
##	10	0.3398	nan	0.1000	0.0227
##	20	0.2210	nan	0.1000	0.0056
##	40	0.1672	nan	0.1000	0.0010
##	60	0.1490	nan	0.1000	-0.0000
##	80	0.1348	nan	0.1000	0.0000
##	100	0.1233	nan	0.1000	0.0002
##	120	0.1123	nan	0.1000	0.0001
##	140	0.1032	nan	0.1000	0.0002
##	150	0.1000	nan	0.1000	0.0000
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8288	nan	0.1000	0.0834
##	2	0.7649	nan	0.1000	0.0643
##	3	0.7037	nan	0.1000	0.0589
##	4	0.6531	nan	0.1000	0.0493
##	5	0.6129	nan	0.1000	0.0404
##	6	0.5783	nan	0.1000	0.0349
##	7	0.5451	nan	0.1000	0.0325
##	8	0.5152	nan	0.1000	0.0274
##	9	0.4890	nan	0.1000	0.0249
##	10	0.4658	nan	0.1000	0.0222
##	20	0.3183	nan	0.1000	0.0094
##	40	0.2276	nan	0.1000	0.0012
##	60	0.2066	nan	0.1000	0.0002
##	80	0.1985	nan	0.1000	0.0003
##	100	0.1931	nan	0.1000	0.0001
##	120	0.1893	nan	0.1000	-0.0000
##	140	0.1857	nan	0.1000	0.0001
##	150	0.1844	nan	0.1000	-0.0004
##		3.1017	iidii	3.2000	
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8140	nan	0.1000	0.0980
##	2	0.7317	nan	0.1000	0.0812
##	3	0.6602	nan	0.1000	0.0012
##	4	0.6001	nan	0.1000	0.0584
##	5	0.5514	nan	0.1000	0.0493
##	6	0.5091	nan	0.1000	0.0425
##	7	0.4697	nan	0.1000	0.0397
##	8	0.4394	nan	0.1000	0.0298
##	9	0.4081	nan	0.1000	0.0291
##	10	0.3838	nan	0.1000	0.0231
##	20	0.2462		0.1000	0.0251
##	40	0.1811	nan nan	0.1000	0.0008
##	60	0.1594		0.1000	0.0002
##	99	Ø.1594	nan	O. TOOO	0.0002

##	80	0.1486	nan	0.1000	0.0001
##	100	0.1394	nan	0.1000	0.0007
##	120	0.1302	nan	0.1000	0.0005
##	140	0.1232	nan	0.1000	-0.0001
##	150	0.1200	nan	0.1000	0.0004
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7987	nan	0.1000	0.1083
##	2	0.7066	nan	0.1000	0.0914
##	3	0.6323	nan	0.1000	0.0747
##	4	0.5668	nan	0.1000	0.0639
##	5	0.5145	nan	0.1000	0.0473
##	6	0.4691	nan	0.1000	0.0480
##	7	0.4312	nan	0.1000	0.0371
##	8	0.3961	nan	0.1000	0.0337
##	9	0.3669	nan	0.1000	0.0289
##	10	0.3403	nan	0.1000	0.0243
##	20	0.2157	nan	0.1000	0.0066
##	40	0.1536	nan	0.1000	0.0003
##	60	0.1360	nan	0.1000	0.0013
##	80	0.1194	nan	0.1000	0.0002
##	100	0.1084	nan	0.1000	0.0003
##	120	0.1015		0.1000	-0.0001
##	140	0.0943	nan	0.1000	0.0001
	150	0.0945	nan	0.1000	
##	130	0.0913	nan	0.1000	0.0000
## ##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7820	nan	0.1000	0.0726
##	2	0.7205		0.1000	0.0597
##	3	0.6693	nan	0.1000	
			nan		0.0488 0.0425
##	4	0.6265	nan	0.1000	
##	5	0.5875	nan	0.1000	0.0396
##	6	0.5520	nan	0.1000	0.0339
##	7	0.5184	nan	0.1000	0.0316
##	8	0.4893	nan	0.1000	0.0259
##	9	0.4645	nan	0.1000	0.0226
##	10	0.4429	nan	0.1000	0.0215
##	20	0.3050	nan	0.1000	0.0078
##	40	0.2232	nan	0.1000	0.0008
##	60	0.2027	nan	0.1000	0.0004
##	80	0.1946	nan	0.1000	0.0002
##	100	0.1895	nan	0.1000	0.0001
##	120	0.1860	nan	0.1000	0.0000
##	140	0.1831	nan	0.1000	-0.0002
##	150	0.1820	nan	0.1000	-0.0001
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7731	nan	0.1000	0.0838
##	2	0.6984	nan	0.1000	0.0764
##	3	0.6331	nan	0.1000	0.0637

##	4	0.5807	nan	0.1000	0.0517
##	5	0.5323	nan	0.1000	0.0477
##	6	0.4914	nan	0.1000	0.0382
##	7	0.4518	nan	0.1000	0.0366
##	8	0.4201	nan	0.1000	0.0320
##	9	0.3941	nan	0.1000	0.0265
##	10	0.3717	nan	0.1000	0.0221
##	20	0.2385	nan	0.1000	0.0059
##	40	0.1787	nan	0.1000	0.0014
##	60	0.1591	nan	0.1000	0.0004
##	80	0.1481	nan	0.1000	0.0005
##	100	0.1390	nan	0.1000	-0.0001
##	120	0.1307	nan	0.1000	0.0001
##	140	0.1230	nan	0.1000	-0.0000
##	150	0.1196	nan	0.1000	-0.0000
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7596	nan	0.1000	0.1008
##	2	0.6755	nan	0.1000	0.0750
##	3	0.6071	nan	0.1000	0.0676
##	4	0.5487	nan	0.1000	0.0566
##	5	0.4972	nan	0.1000	0.0457
##	6	0.4527	nan	0.1000	0.0413
##	7	0.4135	nan	0.1000	0.0366
##	8	0.3819	nan	0.1000	0.0331
##	9	0.3557	nan	0.1000	0.0253
##	10	0.3329	nan	0.1000	0.0238
##	20	0.2091	nan	0.1000	0.0066
##	40	0.1543	nan	0.1000	0.0006
##	60	0.1328	nan	0.1000	0.0008
##	80	0.1208	nan	0.1000	0.0004
##	100	0.1102	nan	0.1000	0.0002
##	120	0.1018	nan	0.1000	0.0002
##	140	0.0949	nan	0.1000	0.0002
##	150	0.0915	nan	0.1000	0.0004
##		0.0525		2.2000	
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8646	nan	0.1000	0.0898
##	2	0.7884	nan	0.1000	0.0692
##	3	0.7239	nan	0.1000	0.0615
##	4	0.6724	nan	0.1000	0.0518
##	5	0.6265	nan	0.1000	0.0466
##	6	0.5890	nan	0.1000	0.0351
##	7	0.5569	nan	0.1000	0.0325
##	8	0.5294	nan	0.1000	0.0284
##	9	0.5009	nan	0.1000	0.0285
##	10	0.4769	nan	0.1000	0.0237
##	20	0.3280	nan	0.1000	0.0080
##	40	0.2437	nan	0.1000	0.0010
##	60	0.2225	nan	0.1000	0.0010
II TT	00	0.2223	Hall	0.1000	0.0007

##	80	0.2105	nan	0.1000	0.0005	
##	100	0.2025	nan	0.1000	0.0001	
##	120	0.1976	nan	0.1000	0.0003	
##	140	0.1939	nan	0.1000	0.0000	
##	150	0.1923	nan	0.1000	-0.0000	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8533	nan	0.1000	0.0990	
##	2	0.7691	nan	0.1000	0.0774	
##	3	0.6922	nan	0.1000	0.0716	
##	4	0.6275	nan	0.1000	0.0644	
##	5	0.5752	nan	0.1000	0.0544	
##	6	0.5311	nan	0.1000	0.0422	
##	7	0.4914	nan	0.1000	0.0375	
##	8	0.4563	nan	0.1000	0.0319	
##	9	0.4272	nan	0.1000	0.0294	
##	10	0.3988	nan	0.1000	0.0276	
##	20	0.2691	nan	0.1000	0.0067	
##	40	0.1982	nan	0.1000	0.0020	
##	60	0.1778	nan	0.1000	0.0007	
##	80	0.1671	nan	0.1000	0.0005	
##	100	0.1556	nan	0.1000	0.0004	
##	120	0.1459	nan	0.1000	0.0004	
##	140	0.1375	nan	0.1000	0.0001	
##	150	0.1340	nan	0.1000	-0.0002	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8377	nan	0.1000	0.1085	
##	2	0.7396	nan	0.1000	0.0934	
##	3	0.6654	nan	0.1000	0.0717	
##	4	0.6006	nan	0.1000	0.0627	
##	5	0.5406	nan	0.1000	0.0603	
##	6	0.4898	nan	0.1000	0.0451	
##	7	0.4500	nan	0.1000	0.0406	
##	8	0.4163	nan	0.1000	0.0329	
##	9	0.3892	nan	0.1000	0.0253	
##	10	0.3640	nan	0.1000	0.0256	
##	20	0.2353	nan	0.1000	0.0061	
##	40	0.1687	nan	0.1000	0.0018	
##	60	0.1449	nan	0.1000	0.0004	
##	80	0.1320	nan	0.1000	0.0001	
##	100	0.1215	nan	0.1000	0.0003	
##	120	0.1122	nan	0.1000	0.0001	
##	140	0.1031	nan	0.1000	0.0005	
##	150	0.0998	nan	0.1000	0.0000	
##	150	0.0550	nan	3.1000	0.0000	
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7816	nan	0.1000	0.0766	
##	2	0.7190	nan	0.1000	0.0602	
##	3	0.6672	nan	0.1000	0.0519	
	,	0.0072	Hall	3.1000	0.0010	

##	4	0.6229	nan	0.1000	0.0413
##	5	0.5858	nan	0.1000	0.0366
##	6	0.5502	nan	0.1000	0.0320
##	7	0.5176	nan	0.1000	0.0324
##	8	0.4913	nan	0.1000	0.0247
##	9	0.4689	nan	0.1000	0.0218
##	10	0.4501	nan	0.1000	0.0199
##	20	0.3199	nan	0.1000	0.0092
##	40	0.2402	nan	0.1000	0.0015
##	60	0.2202	nan	0.1000	0.0004
##	80	0.2096	nan	0.1000	0.0005
##	100	0.2029	nan	0.1000	0.0003
##	120	0.1976	nan	0.1000	0.0003
##	140	0.1940	nan	0.1000	-0.0002
##	150	0.1925	nan	0.1000	-0.0003
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7678	nan	0.1000	0.0893
##	2	0.6969	nan	0.1000	0.0660
##	3	0.6340	nan	0.1000	0.0558
##	4	0.5824	nan	0.1000	0.0495
##	5	0.5368	nan	0.1000	0.0461
##	6	0.4948	nan	0.1000	0.0419
##	7	0.4598	nan	0.1000	0.0369
##	8	0.4281	nan	0.1000	0.0307
##	9	0.4027	nan	0.1000	0.0228
##	10	0.3757	nan	0.1000	0.0261
##	20	0.2520	nan	0.1000	0.0074
##	40	0.1913	nan	0.1000	0.0013
##	60	0.1719	nan	0.1000	0.0003
##	80	0.1616	nan	0.1000	0.0003
##	100	0.1535	nan	0.1000	-0.0002
##	120	0.1435	nan	0.1000	-0.0004
##	140	0.1360	nan	0.1000	-0.0001
##	150	0.1324	nan	0.1000	0.0003
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7581	nan	0.1000	0.1013
##	2	0.6792	nan	0.1000	0.0744
##	3	0.6100	nan	0.1000	0.0631
##	4	0.5516	nan	0.1000	0.0564
##	5	0.4984	nan	0.1000	0.0490
##	6	0.4542	nan	0.1000	0.0428
##	7	0.4204	nan	0.1000	0.0345
##	8	0.3897	nan	0.1000	0.0261
##	9	0.3645	nan	0.1000	0.0261
##	10	0.3418	nan	0.1000	0.0228
##	20	0.2285	nan	0.1000	0.0047
##	40	0.1700	nan	0.1000	0.0007
##	60	0.1468	nan	0.1000	0.0002

##	80	0.1351	nan	0.1000	0.0003
##	100	0.1232	nan	0.1000	0.0005
##	120	0.1126	nan	0.1000	0.0001
##	140	0.1019	nan	0.1000	0.0000
##	150	0.0984	nan	0.1000	-0.0002
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8183	nan	0.1000	0.0702
##	2	0.7563	nan	0.1000	0.0630
##	3	0.7034	nan	0.1000	0.0526
##	4	0.6547	nan	0.1000	0.0473
##	5	0.6160	nan	0.1000	0.0354
##	6	0.5789	nan	0.1000	0.0364
##	7	0.5455	nan	0.1000	0.0308
##	8	0.5177	nan	0.1000	0.0273
##	9	0.4893	nan	0.1000	0.0263
##	10	0.4662	nan	0.1000	0.0231
##	20	0.3247	nan	0.1000	0.0091
##	40	0.2375	nan	0.1000	0.0007
##	60	0.2171	nan	0.1000	0.0005
##	80	0.2069	nan	0.1000	0.0003
##	100	0.2007	nan	0.1000	0.0004
##	120	0.1957	nan	0.1000	0.0001
##	140	0.1920	nan	0.1000	0.0001
##	150	0.1904	nan	0.1000	-0.0000
##	150	0.1301	11411	0.1000	0.0000
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8027	nan	0.1000	0.0876
##	2	0.7297	nan	0.1000	0.0680
##	3	0.6587	nan	0.1000	0.0706
##	4	0.6000	nan	0.1000	0.0557
##	5	0.5511	nan	0.1000	0.0455
##	6	0.5070	nan	0.1000	0.0442
##	7	0.4695	nan	0.1000	0.0400
##	8	0.4345	nan	0.1000	0.0299
##	9	0.4064	nan	0.1000	0.0255
##	10	0.3855	nan	0.1000	0.0203
##	20	0.2558	nan	0.1000	0.0204
##	40	0.1894	nan	0.1000	0.0070
##	60	0.1695	nan	0.1000	0.0001
##	80	0.1564	nan	0.1000	0.0004
##	100	0.1364	nan	0.1000	-0.0000
##	120	0.1373		0.1000	-0.0001
##	140	0.1373	nan	0.1000	-0.0001
	150		nan		
##	120	0.1263	nan	0.1000	0.0003
##	Tton	TnainDoviance	ValidDoviance	CtonCi-c	Tmppous
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7965	nan	0.1000	0.0955
##	2	0.7121	nan	0.1000	0.0885
##	3	0.6366	nan	0.1000	0.0749

##	4	0.5724	nan	0.1000	0.0603
##	5	0.5183	nan	0.1000	0.0562
##	6	0.4746	nan	0.1000	0.0425
##	7	0.4316	nan	0.1000	0.0406
##	8	0.4008	nan	0.1000	0.0298
##	9	0.3722	nan	0.1000	0.0276
##	10	0.3465	nan	0.1000	0.0224
##	20	0.2176	nan	0.1000	0.0070
##	40	0.1587	nan	0.1000	0.0015
##	60	0.1357	nan	0.1000	0.0004
##	80	0.1218	nan	0.1000	0.0006
##	100	0.1120	nan	0.1000	0.0004
##	120	0.1042	nan	0.1000	-0.0001
##	140	0.0977	nan	0.1000	0.0001
##	150	0.0948	nan	0.1000	0.0001
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8103	nan	0.1000	0.0762
##	2	0.7410	nan	0.1000	0.0703
##	3	0.6850	nan	0.1000	0.0570
##	4	0.6377	nan	0.1000	0.0479
##	5	0.5959	nan	0.1000	0.0404
##	6	0.5628	nan	0.1000	0.0292
##	7	0.5300	nan	0.1000	0.0323
##	8	0.5041	nan	0.1000	0.0245
##	9	0.4740	nan	0.1000	0.0290
##	10	0.4512	nan	0.1000	0.0231
##	20	0.3142	nan	0.1000	0.0087
##	40	0.2318	nan	0.1000	0.0015
##	60	0.2128	nan	0.1000	0.0002
##	80	0.2029	nan	0.1000	0.0002
##	100	0.1969	nan	0.1000	-0.0005
##	120	0.1927	nan	0.1000	-0.0002
##	140	0.1897	nan	0.1000	0.0001
##	150	0.1886	nan	0.1000	0.0001
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7929	nan	0.1000	0.1002
##	2	0.7155	nan	0.1000	0.0753
##	3	0.6428	nan	0.1000	0.0665
##	4	0.5853	nan	0.1000	0.0540
##	5	0.5372	nan	0.1000	0.0470
##	6	0.4943	nan	0.1000	0.0402
##	7	0.4602	nan	0.1000	0.0312
##	8	0.4286	nan	0.1000	0.0284
##	9	0.4035	nan	0.1000	0.0252
##	10	0.3793	nan	0.1000	0.0233
##	20	0.2475	nan	0.1000	0.0062
##	40	0.1865	nan	0.1000	0.0015
##	60	0.1671	nan	0.1000	0.0009

##	80	0.1546	nan	0.1000	0.0002	
##	100	0.1481	nan	0.1000	-0.0005	
##	120	0.1400	nan	0.1000	0.0001	
##	140	0.1316	nan	0.1000	0.0001	
##	150	0.1291	nan	0.1000	0.0001	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7823	nan	0.1000	0.1039	
##	2	0.6944	nan	0.1000	0.0831	
##	3	0.6179	nan	0.1000	0.0708	
##	4	0.5572	nan	0.1000	0.0571	
##	5	0.5076	nan	0.1000	0.0471	
##	6	0.4635	nan	0.1000	0.0409	
##	7	0.4237	nan	0.1000	0.0389	
##	8	0.3925	nan	0.1000	0.0312	
##	9	0.3635	nan	0.1000	0.0297	
##	10	0.3379	nan	0.1000	0.0237	
##	20	0.2143	nan	0.1000	0.0062	
##	40	0.1577	nan	0.1000	0.0011	
##	60	0.1373	nan	0.1000	0.0004	
##	80	0.1220	nan	0.1000	0.0004	
##	100	0.1111	nan	0.1000	0.0001	
##	120	0.1038	nan	0.1000	0.0002	
##	140	0.0975	nan	0.1000	-0.0001	
##	150	0.0943	nan	0.1000	0.0001	
##						
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8068	nan	0.1000	0.0701	
##	2	0.7487	nan	0.1000	0.0601	
##	3	0.6975	nan	0.1000	0.0531	
##	4	0.6524	nan	0.1000	0.0413	
##	5	0.6146	nan	0.1000	0.0373	
##	6	0.5818	nan	0.1000	0.0328	
##	7	0.5520	nan	0.1000	0.0272	
##	8	0.5250	nan	0.1000	0.0279	
##	9	0.5016	nan	0.1000	0.0253	
##	10	0.4794	nan	0.1000	0.0212	
##	20	0.3394	nan	0.1000	0.0072	
##	40	0.2515	nan	0.1000	0.0013	
##	60	0.2313	nan	0.1000	0.0007	
##	80	0.2214	nan	0.1000	-0.0001	
##	100	0.2146	nan	0.1000	0.0000	
##	120	0.2102	nan	0.1000	0.0002	
##	140	0.2066	nan	0.1000	-0.0002	
##	150	0.2049	nan	0.1000	0.0001	
##						
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7934	nan	0.1000	0.0828	
##	2	0.7205	nan	0.1000	0.0727	
##	3	0.6542	nan	0.1000	0.0636	

##	4	0.5982	nan	0.1000	0.0525
##	5	0.5500	nan	0.1000	0.0439
##	6	0.5070	nan	0.1000	0.0393
##	7	0.4774	nan	0.1000	0.0252
##	8	0.4472	nan	0.1000	0.0306
##	9	0.4213	nan	0.1000	0.0248
##	10	0.3966	nan	0.1000	0.0239
##	20	0.2699	nan	0.1000	0.0056
##	40	0.1977	nan	0.1000	0.0011
##	60	0.1771	nan	0.1000	0.0007
##	80	0.1610	nan	0.1000	0.0004
##	100	0.1529	nan	0.1000	0.0003
##	120	0.1437	nan	0.1000	-0.0002
##	140	0.1356	nan	0.1000	-0.0001
##	150	0.1325	nan	0.1000	0.0000
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7836	nan	0.1000	0.1004
##	2	0.7021	nan	0.1000	0.0808
##	3	0.6334	nan	0.1000	0.0671
##	4	0.5738	nan	0.1000	0.0592
##	5	0.5238	nan	0.1000	0.0505
##	6	0.4823	nan	0.1000	0.0443
##	7	0.4456	nan	0.1000	0.0364
##	8	0.4123	nan	0.1000	0.0301
##	9	0.3835	nan	0.1000	0.0269
##	10	0.3582	nan	0.1000	0.0234
##	20	0.2373	nan	0.1000	0.0054
##	40	0.1693	nan	0.1000	0.0015
##	60	0.1473	nan	0.1000	0.0002
##	80	0.1323	nan	0.1000	0.0003
##	100	0.1217	nan	0.1000	0.0004
##	120	0.1126	nan	0.1000	0.0002
##	140	0.1051	nan	0.1000	0.0001
##	150	0.1011	nan	0.1000	0.0001
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7661	nan	0.1000	0.0642
##	2	0.7050	nan	0.1000	0.0581
##	3	0.6562	nan	0.1000	0.0491
##	4	0.6103	nan	0.1000	0.0426
##	5	0.5722	nan	0.1000	0.0365
##	6	0.5417	nan	0.1000	0.0315
##	7	0.5123	nan	0.1000	0.0275
##	8	0.4868	nan	0.1000	0.0252
##	9	0.4628	nan	0.1000	0.0220
##	10	0.4422	nan	0.1000	0.0200
##	20	0.3118	nan	0.1000	0.0086
##	40	0.2307	nan	0.1000	0.0019
##	60	0.2106	nan	0.1000	0.0007

##	80	0.2010	nan	0.1000	0.0003
##	100	0.1945	nan	0.1000	0.0004
##	120	0.1909	nan	0.1000	0.0000
##	140	0.1882	nan	0.1000	0.0001
##	150	0.1868	nan	0.1000	0.0001
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7544	nan	0.1000	0.0832
##	2	0.6783	nan	0.1000	0.0728
##	3	0.6203	nan	0.1000	0.0588
##	4	0.5643	nan	0.1000	0.0536
##	5	0.5190	nan	0.1000	0.0452
##	6	0.4835	nan	0.1000	0.0357
##	7	0.4485	nan	0.1000	0.0340
##	8	0.4196	nan	0.1000	0.0302
##	9	0.3964	nan	0.1000	0.0238
##	10	0.3702	nan	0.1000	0.0230
##	20	0.2415	nan	0.1000	0.0062
##	40	0.1852	nan	0.1000	0.0007
##	60	0.1630	nan	0.1000	0.0005
##	80	0.1536	nan	0.1000	-0.0001
##	100	0.1445	nan	0.1000	0.0005
##	120	0.1343	nan	0.1000	-0.0001
##	140	0.1270	nan	0.1000	-0.0001
##	150	0.1245	nan	0.1000	-0.0001
##	150	0.12.13	nan	0.1000	0.0001
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7401	nan	0.1000	0.0961
##	2	0.6620	nan	0.1000	0.0822
##	3	0.5952	nan	0.1000	0.0635
##	4	0.5386	nan	0.1000	0.0545
##	5	0.4887	nan	0.1000	0.0454
##	6	0.4483	nan	0.1000	0.0390
##	7	0.4158	nan	0.1000	0.0326
##	8	0.3854	nan	0.1000	0.0320
##	9	0.3583	nan	0.1000	0.0235
##	10	0.3320	nan	0.1000	0.0240
##	20	0.2167	nan	0.1000	0.0053
##	40	0.1571	nan	0.1000	0.0014
##	60	0.1371	nan	0.1000	0.0014
##	80	0.1399	nan	0.1000	0.0008
##	100	0.1248	nan	0.1000	0.0005
##	120	0.1050		0.1000	0.0003
##	140	0.0970	nan	0.1000	0.0001
			nan		
##	150	0.0936	nan	0.1000	0.0006
##	Tton	TnainDaviance	Validoviana	C+05C=-0	Tmppc
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8512	nan	0.1000	0.0834
##	2	0.7818	nan	0.1000	0.0669
##	3	0.7238	nan	0.1000	0.0582

##	4	0.6729	nan	0.1000	0.0464
##	5	0.6292	nan	0.1000	0.0417
##	6	0.5909	nan	0.1000	0.0338
##	7	0.5572	nan	0.1000	0.0335
##	8	0.5283	nan	0.1000	0.0311
##	9	0.5020	nan	0.1000	0.0252
##	10	0.4748	nan	0.1000	0.0271
##	20	0.3285	nan	0.1000	0.0083
##	40	0.2399	nan	0.1000	0.0012
##	60	0.2195	nan	0.1000	0.0003
##	80	0.2091	nan	0.1000	0.0003
##	100	0.2025	nan	0.1000	0.0001
##	120	0.1978	nan	0.1000	-0.0003
##	140	0.1939	nan	0.1000	-0.0003
##	150	0.1925	nan	0.1000	0.0001
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8387	nan	0.1000	0.0908
##	2	0.7580	nan	0.1000	0.0766
##	3	0.6856	nan	0.1000	0.0683
##	4	0.6247	nan	0.1000	0.0659
##	5	0.5721	nan	0.1000	0.0512
##	6	0.5256	nan	0.1000	0.0450
##	7	0.4848	nan	0.1000	0.0391
##	8	0.4479	nan	0.1000	0.0362
##	9	0.4165	nan	0.1000	0.0320
##	10	0.3906	nan	0.1000	0.0252
##	20	0.2560	nan	0.1000	0.0060
##	40	0.1869	nan	0.1000	0.0013
##	60	0.1637	nan	0.1000	0.0004
##	80	0.1494	nan	0.1000	0.0000
##	100	0.1402	nan	0.1000	0.0004
##	120	0.1323	nan	0.1000	-0.0001
##	140	0.1230	nan	0.1000	0.0001
##	150	0.1208	nan	0.1000	0.0000
##		3.223		2.200	
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.8204	nan	0.1000	0.1065
##	2	0.7304	nan	0.1000	0.0853
##	3	0.6509	nan	0.1000	0.0802
##	4	0.5864	nan	0.1000	0.0619
##	5	0.5314	nan	0.1000	0.0538
##	6	0.4843	nan	0.1000	0.0464
##	7	0.4450	nan	0.1000	0.0392
##	8	0.4094	nan	0.1000	0.0332
##	9	0.3791	nan	0.1000	0.0295
##	10	0.3524	nan	0.1000	0.0235
##	20	0.2244	nan	0.1000	0.0223
##	40	0.1600	nan	0.1000	0.0001
##	60	0.1376	nan	0.1000	0.0011
11.11	00	0.15/0	Hall	0.1000	0.0012

##	80	0.1234	nan	0.1000	-0.0001	
##	100	0.1131	nan	0.1000	0.0007	
##	120	0.1052	nan	0.1000	-0.0001	
##	140	0.0972	nan	0.1000	0.0000	
##	150	0.0946	nan	0.1000	0.0002	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7952	nan	0.1000	0.0726	
##	2	0.7346	nan	0.1000	0.0617	
##	3	0.6833	nan	0.1000	0.0502	
##	4	0.6366	nan	0.1000	0.0476	
##	5	0.5962	nan	0.1000	0.0376	
##	6	0.5637	nan	0.1000	0.0327	
##	7	0.5322	nan	0.1000	0.0303	
##	8	0.5046	nan	0.1000	0.0263	
##	9	0.4814	nan	0.1000	0.0228	
##	10	0.4569	nan	0.1000	0.0230	
##	20	0.3225	nan	0.1000	0.0093	
##	40	0.2426	nan	0.1000	0.0012	
##	60	0.2220	nan	0.1000	0.0006	
##	80	0.2121	nan	0.1000	0.0002	
##	100	0.2054	nan	0.1000	0.0001	
##	120	0.2007	nan	0.1000	0.0002	
##	140	0.1975	nan	0.1000	-0.0000	
##	150	0.1959	nan	0.1000	-0.0000	
##						
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7767	nan	0.1000	0.0954	
##	2	0.7009	nan	0.1000	0.0741	
##	3	0.6357	nan	0.1000	0.0619	
##	4	0.5825	nan	0.1000	0.0507	
##	5	0.5376	nan	0.1000	0.0386	
##	6	0.4996	nan	0.1000	0.0370	
##	7	0.4645	nan	0.1000	0.0310	
##	8	0.4341	nan	0.1000	0.0276	
##	9	0.4084	nan	0.1000	0.0256	
##	10	0.3860	nan	0.1000	0.0215	
##	20	0.2597	nan	0.1000	0.0066	
##	40	0.1967	nan	0.1000	0.0007	
##	60	0.1755	nan	0.1000	0.0000	
##	80	0.1615	nan	0.1000	-0.0003	
##	100	0.1546	nan	0.1000	-0.0003	
##	120	0.1481	nan	0.1000	-0.0001	
##	140	0.1406	nan	0.1000	-0.0001	
##	150	0.1365	nan	0.1000	-0.0000	
##		0.2505		2.2000	2.2000	
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7723	nan	0.1000	0.0929	
##	2	0.6887	nan	0.1000	0.0844	
##	3	0.6177	nan	0.1000	0.0691	
					, . –	

##	4	0.5598	nan	0.1000	0.0589	
##	5	0.5104	nan	0.1000	0.0489	
##	6	0.4651	nan	0.1000	0.0424	
##	7	0.4298	nan	0.1000	0.0334	
##	8	0.3979	nan	0.1000	0.0292	
##	9	0.3724	nan	0.1000	0.0232	
##	10	0.3484	nan	0.1000	0.0247	
##	20	0.2265	nan	0.1000	0.0068	
##	40	0.1655	nan	0.1000	0.0014	
##	60	0.1470	nan	0.1000	-0.0000	
##	80	0.1346	nan	0.1000	0.0002	
##	100	0.1224	nan	0.1000	0.0000	
##	120	0.1132	nan	0.1000	-0.0003	
##	140	0.1045	nan	0.1000	0.0000	
##	150	0.1021	nan	0.1000	0.0001	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8017	nan	0.1000	0.0781	
##	2	0.7384	nan	0.1000	0.0610	
##	3	0.6872	nan	0.1000	0.0513	
##	4	0.6429	nan	0.1000	0.0430	
##	5	0.6047	nan	0.1000	0.0354	
##	6	0.5697	nan	0.1000	0.0329	
##	7	0.5408	nan	0.1000	0.0254	
##	8	0.5129	nan	0.1000	0.0276	
##	9	0.4885	nan	0.1000	0.0230	
##	10	0.4667	nan	0.1000	0.0224	
##	20	0.3324	nan	0.1000	0.0069	
##	40	0.2453	nan	0.1000	0.0019	
##	60	0.2240	nan	0.1000	0.0002	
##	80	0.2154	nan	0.1000	0.0000	
##	100	0.2104	nan	0.1000	-0.0000	
##	120	0.2066	nan	0.1000	-0.0005	
##	140	0.2032	nan	0.1000	0.0002	
##	150	0.2019	nan	0.1000	-0.0001	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7867	nan	0.1000	0.0854	
##	2	0.7117	nan	0.1000	0.0699	
##	3	0.6491	nan	0.1000	0.0605	
##	4	0.5956	nan	0.1000	0.0515	
##	5	0.5472	nan	0.1000	0.0498	
##	6	0.5068	nan	0.1000	0.0380	
##	7	0.4709	nan	0.1000	0.0352	
##	8	0.4411	nan	0.1000	0.0265	
##	9	0.4127	nan	0.1000	0.0247	
##	10	0.3881	nan	0.1000	0.0239	
##	20	0.2565	nan	0.1000	0.0071	
##	40	0.1990	nan	0.1000	0.0071	
##	60	0.1758	nan	0.1000	0.0017	
	00	0.1750	Hall	0.1000	0.0007	

##	80	0.1601	nan	0.1000	0.0009	
##	100	0.1506	nan	0.1000	0.0001	
##	120	0.1439	nan	0.1000	0.0010	
##	140	0.1382	nan	0.1000	0.0002	
##	150	0.1348	nan	0.1000	0.0001	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.7771	nan	0.1000	0.1034	
##	2	0.6912	nan	0.1000	0.0875	
##	3	0.6225	nan	0.1000	0.0667	
##	4	0.5614	nan	0.1000	0.0608	
##	5	0.5104	nan	0.1000	0.0484	
##	6	0.4667	nan	0.1000	0.0407	
##	7	0.4306	nan	0.1000	0.0360	
##	8	0.3989	nan	0.1000	0.0297	
##	9	0.3728	nan	0.1000	0.0238	
##	10	0.3510	nan	0.1000	0.0207	
##	20	0.2299	nan	0.1000	0.0058	
##	40	0.1689	nan	0.1000	0.0004	
##	60	0.1468	nan	0.1000	0.0006	
##	80	0.1341	nan	0.1000	-0.0000	
##	100	0.1204	nan	0.1000	-0.0000	
##	120	0.1125	nan	0.1000	0.0003	
##	140	0.1058	nan	0.1000	-0.0001	
##	150	0.1023	nan	0.1000	0.0003	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8211	nan	0.1000	0.0821	
##	2	0.7533	nan	0.1000	0.0679	
##	3	0.6951	nan	0.1000	0.0564	
##	4	0.6462	nan	0.1000	0.0478	
##	5	0.6079	nan	0.1000	0.0347	
##	6	0.5665	nan	0.1000	0.0372	
##	7	0.5297	nan	0.1000	0.0348	
##	8	0.5007	nan	0.1000	0.0262	
##	9	0.4766	nan	0.1000	0.0241	
##	10	0.4544	nan	0.1000	0.0198	
##	20	0.3096	nan	0.1000	0.0081	
##	40	0.2254	nan	0.1000	0.0019	
##	60	0.2071	nan	0.1000	0.0000	
##	80	0.1984	nan	0.1000	0.0004	
##	100	0.1931	nan	0.1000	-0.0006	
##	120	0.1888	nan	0.1000	0.0001	
##	140	0.1860	nan	0.1000	0.0000	
##	150	0.1845	nan	0.1000	-0.0000	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8030	nan	0.1000	0.1002	
##	2	0.7238	nan	0.1000	0.0793	
##	3	0.6495	nan	0.1000	0.0714	

##	4	0.5889	nan	0.1000	0.0619
##	5	0.5414	nan	0.1000	0.0454
##	6	0.4982	nan	0.1000	0.0422
##	7	0.4590	nan	0.1000	0.0356
##	8	0.4262	nan	0.1000	0.0319
##	9	0.4013	nan	0.1000	0.0240
##	10	0.3760	nan	0.1000	0.0246
##	20	0.2432	nan	0.1000	0.0057
##	40	0.1806	nan	0.1000	0.0009
##	60	0.1606	nan	0.1000	-0.0003
##	80	0.1467	nan	0.1000	-0.0000
##	100	0.1370	nan	0.1000	-0.0003
##	120	0.1286	nan	0.1000	0.0001
##	140	0.1220	nan	0.1000	-0.0001
##	150	0.1202	nan	0.1000	-0.0001
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7926	nan	0.1000	0.1046
##	2	0.7042	nan	0.1000	0.0883
##	3	0.6283	nan	0.1000	0.0768
##	4	0.5635	nan	0.1000	0.0652
##	5	0.5122	nan	0.1000	0.0489
##	6	0.4672	nan	0.1000	0.0454
##	7	0.4290	nan	0.1000	0.0376
##	8	0.3960	nan	0.1000	0.0329
##	9	0.3672	nan	0.1000	0.0281
##	10	0.3426	nan	0.1000	0.0254
##	20	0.2183	nan	0.1000	0.0059
##	40	0.1546	nan	0.1000	0.0015
##	60	0.1341	nan	0.1000	-0.0001
##	80	0.1189	nan	0.1000	-0.0000
##	100	0.1097	nan	0.1000	-0.0001
##	120	0.1018	nan	0.1000	-0.0001
##	140	0.0952	nan	0.1000	0.0001
##	150	0.0927	nan	0.1000	-0.0000
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7966	nan	0.1000	0.0708
##	2	0.7333	nan	0.1000	0.0596
##	3	0.6801	nan	0.1000	0.0485
##	4	0.6363	nan	0.1000	0.0475
##	5	0.5969	nan	0.1000	0.0383
##	6	0.5639	nan	0.1000	0.0305
##	7	0.5340	nan	0.1000	0.0289
##	8	0.5080	nan	0.1000	0.0239
##	9	0.4833	nan	0.1000	0.0226
##	10	0.4574	nan	0.1000	0.0249
##	20	0.3235	nan	0.1000	0.0087
##	40	0.2391	nan	0.1000	0.0016
##	60	0.2190	nan	0.1000	0.0002

##	80	0.2087	nan	0.1000	0.0001
##	100	0.2012	nan	0.1000	-0.0000
##	120	0.1973	nan	0.1000	-0.0003
##	140	0.1938	nan	0.1000	-0.0001
##	150	0.1923	nan	0.1000	-0.0001
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7818	nan	0.1000	0.0865
##	2	0.7098	nan	0.1000	0.0716
##	3	0.6409	nan	0.1000	0.0656
##	4	0.5886	nan	0.1000	0.0496
##	5	0.5407	nan	0.1000	0.0475
##	6	0.4984	nan	0.1000	0.0396
##	7	0.4639	nan	0.1000	0.0336
##	8	0.4345	nan	0.1000	0.0301
##	9	0.4072	nan	0.1000	0.0246
##	10	0.3829	nan	0.1000	0.0241
##	20	0.2551	nan	0.1000	0.0057
##	40	0.1924	nan	0.1000	0.0009
##	60	0.1718	nan	0.1000	0.0009
##	80	0.1601	nan	0.1000	-0.0001
##	100	0.1513	nan	0.1000	0.0002
##	120	0.1424	nan	0.1000	0.0003
##	140	0.1361	nan	0.1000	-0.0003
##	150	0.1318	nan	0.1000	0.0005
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7724	nan	0.1000	0.0960
##	2	0.6885	nan	0.1000	0.0820
##	3	0.6238	nan	0.1000	0.0630
##	4	0.5615	nan	0.1000	0.0623
##	5	0.5095	nan	0.1000	0.0525
##	6	0.4652	nan	0.1000	0.0419
##	7	0.4274	nan	0.1000	0.0363
##	8	0.3931	nan	0.1000	0.0302
##	9	0.3652	nan	0.1000	0.0254
##	10	0.3436	nan	0.1000	0.0208
##	20	0.2252	nan	0.1000	0.0064
##	40	0.1615	nan	0.1000	0.0005
##	60	0.1436	nan	0.1000	-0.0005
##	80	0.1292	nan	0.1000	0.0001
##	100	0.1183	nan	0.1000	0.0004
##	120	0.1097	nan	0.1000	0.0001
##	140	0.1036	nan	0.1000	0.0000
##	150	0.1002	nan	0.1000	0.0001
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7298	nan	0.1000	0.0691
##	2	0.6726	nan	0.1000	0.0581
##	3	0.6268	nan	0.1000	0.0496

##	4	0.5855	nan	0.1000	0.0414
##	5	0.5504	nan	0.1000	0.0348
##	6	0.5209	nan	0.1000	0.0299
##	7	0.4918	nan	0.1000	0.0292
##	8	0.4632	nan	0.1000	0.0245
##	9	0.4426	nan	0.1000	0.0200
##	10	0.4234	nan	0.1000	0.0190
##	20	0.2934	nan	0.1000	0.0088
##	40	0.2106	nan	0.1000	0.0012
##	60	0.1914	nan	0.1000	0.0005
##	80	0.1836	nan	0.1000	-0.0001
##	100	0.1781	nan	0.1000	-0.0002
##	120	0.1749	nan	0.1000	-0.0005
##	140	0.1711	nan	0.1000	0.0000
##	150	0.1695	nan	0.1000	0.0002
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7220	nan	0.1000	0.0799
##	2	0.6511	nan	0.1000	0.0730
##	3	0.5930	nan	0.1000	0.0532
##	4	0.5393	nan	0.1000	0.0514
##	5	0.4959	nan	0.1000	0.0431
##	6	0.4582	nan	0.1000	0.0359
##	7	0.4272	nan	0.1000	0.0290
##	8	0.3998	nan	0.1000	0.0264
##	9	0.3754	nan	0.1000	0.0230
##	10	0.3515	nan	0.1000	0.0227
##	20	0.2251	nan	0.1000	0.0065
##	40	0.1687	nan	0.1000	0.0013
##	60	0.1516	nan	0.1000	-0.0001
##	80	0.1421	nan	0.1000	0.0003
##	100	0.1343	nan	0.1000	0.0001
##	120	0.1261	nan	0.1000	0.0004
##	140	0.1190	nan	0.1000	0.0002
##	150	0.1161	nan	0.1000	0.0000
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7077	nan	0.1000	0.0945
##	2	0.6317	nan	0.1000	0.0788
##	3	0.5659	nan	0.1000	0.0598
##	4	0.5135	nan	0.1000	0.0532
##	5	0.4651	nan	0.1000	0.0450
##	6	0.4261	nan	0.1000	0.0361
##	7	0.3898	nan	0.1000	0.0347
##	8	0.3586	nan	0.1000	0.0313
##	9	0.3327	nan	0.1000	0.0251
##	10	0.3080	nan	0.1000	0.0236
##	20	0.1996	nan	0.1000	0.0038
##	40	0.1419	nan	0.1000	0.0006
##	60	0.1232	nan	0.1000	0.0003

##	80	0.1123	nan	0.1000	0.0007	
##	100	0.1050	nan	0.1000	-0.0002	
##	120	0.0978	nan	0.1000	-0.0003	
##	140	0.0916	nan	0.1000	-0.0002	
##	150	0.0890	nan	0.1000	-0.0000	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8283	nan	0.1000	0.0804	
##	2	0.7598	nan	0.1000	0.0702	
##	3	0.7036	nan	0.1000	0.0547	
##	4	0.6527	nan	0.1000	0.0476	
##	5	0.6121	nan	0.1000	0.0408	
##	6	0.5741	nan	0.1000	0.0368	
##	7	0.5439	nan	0.1000	0.0306	
##	8	0.5156	nan	0.1000	0.0279	
##	9	0.4895	nan	0.1000	0.0240	
##	10	0.4674	nan	0.1000	0.0183	
##	20	0.3260	nan	0.1000	0.0079	
##	40	0.2420	nan	0.1000	0.0014	
##	60	0.2204	nan	0.1000	0.0003	
##	80	0.2098	nan	0.1000	0.0005	
##	100	0.2023	nan	0.1000	0.0001	
##	120	0.1979	nan	0.1000	0.0001	
##	140	0.1938	nan	0.1000	-0.0003	
##	150	0.1927	nan	0.1000	-0.0001	
##						
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8186	nan	0.1000	0.0969	
##	2	0.7351	nan	0.1000	0.0800	
##	3	0.6672	nan	0.1000	0.0644	
##	4	0.6102	nan	0.1000	0.0549	
##	5	0.5588	nan	0.1000	0.0539	
##	6	0.5148	nan	0.1000	0.0435	
##	7	0.4762	nan	0.1000	0.0399	
##	8	0.4464	nan	0.1000	0.0293	
##	9	0.4190	nan	0.1000	0.0248	
##	10	0.3944	nan	0.1000	0.0248	
##	20	0.2626	nan	0.1000	0.0060	
##	40	0.1947	nan	0.1000	0.0010	
##	60	0.1693	nan	0.1000	0.0008	
##	80	0.1555	nan	0.1000	0.0001	
##	100	0.1456	nan	0.1000	0.0001	
##	120	0.1366	nan	0.1000	0.0001	
##	140	0.1301	nan	0.1000	-0.0002	
##	150	0.1274	nan	0.1000	0.0002	
##						
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve	
##	1	0.8062	nan	0.1000	0.1036	
##	2	0.7141	nan	0.1000	0.0917	
##	3	0.6397	nan	0.1000	0.0741	

##	4	0.5790	nan	0.1000	0.0599
##	5	0.5239	nan	0.1000	0.0492
##	6	0.4784	nan	0.1000	0.0425
##	7	0.4391	nan	0.1000	0.0386
##	8	0.4059	nan	0.1000	0.0316
##	9	0.3799	nan	0.1000	0.0270
##	10	0.3543	nan	0.1000	0.0234
##	20	0.2268	nan	0.1000	0.0052
##	40	0.1655	nan	0.1000	0.0012
##	60	0.1446	nan	0.1000	0.0006
##	80	0.1290	nan	0.1000	-0.0003
##	100	0.1165	nan	0.1000	-0.0002
##	120	0.1078	nan	0.1000	-0.0001
##	140	0.0993	nan	0.1000	-0.0001
##	150	0.0956	nan	0.1000	0.0002
##					
##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7649	nan	0.1000	0.0749
##	2	0.7055	nan	0.1000	0.0586
##	3	0.6533	nan	0.1000	0.0493
##	4	0.6095	nan	0.1000	0.0421
##	5	0.5724	nan	0.1000	0.0343
##	6	0.5419	nan	0.1000	0.0314
##	7	0.5152	nan	0.1000	0.0268
##	8	0.4880	nan	0.1000	0.0253
##	9	0.4628	nan	0.1000	0.0246
##	10	0.4427	nan	0.1000	0.0197
##	20	0.3094	nan	0.1000	0.0063
##	40	0.2315	nan	0.1000	-0.0008
##	60	0.2126	nan	0.1000	0.0003
##	80	0.2035	nan	0.1000	0.0005
##	100	0.1976	nan	0.1000	0.0002
##	120	0.1936	nan	0.1000	0.0001
##	140	0.1906	nan	0.1000	-0.0001
##	150	0.1894	nan	0.1000	0.0001
##					
	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.7510	nan	0.1000	0.0846
##	2	0.6778	nan	0.1000	0.0741
##	3	0.6171	nan	0.1000	0.0601
##	4	0.5629	nan	0.1000	0.0541
##	5	0.5166	nan	0.1000	0.0456
##	6	0.4778	nan	0.1000	0.0372
##	7	0.4427	nan	0.1000	0.0352
##	8	0.4143	nan	0.1000	0.0239
##	9	0.3879	nan	0.1000	0.0231
##	10	0.3667	nan	0.1000	0.0197
##	20	0.2422	nan	0.1000	0.0062
##	40	0.1840	nan	0.1000	0.0002
##	60	0.1637	nan	0.1000	0.0016
		0.2037		5.2000	0.000

```
##
       80
                   0.1495
                                                  0.1000
                                                              0.0000
                                         nan
##
      100
                   0.1413
                                         nan
                                                  0.1000
                                                              0.0002
##
      120
                   0.1346
                                                  0.1000
                                                             -0.0001
                                         nan
##
      140
                                                             -0.0000
                   0.1291
                                                  0.1000
                                         nan
##
      150
                   0.1257
                                         nan
                                                  0.1000
                                                              0.0001
##
##
  Iter
           TrainDeviance
                             ValidDeviance
                                                StepSize
                                                             Improve
         1
##
                   0.7422
                                         nan
                                                  0.1000
                                                              0.0940
         2
##
                   0.6588
                                         nan
                                                  0.1000
                                                              0.0815
##
         3
                   0.5927
                                                  0.1000
                                                              0.0622
                                         nan
         4
##
                   0.5330
                                                  0.1000
                                                              0.0592
                                         nan
##
         5
                   0.4844
                                                  0.1000
                                                              0.0487
                                         nan
##
         6
                   0.4449
                                                  0.1000
                                                              0.0377
                                         nan
##
         7
                   0.4100
                                                  0.1000
                                                              0.0314
                                         nan
##
         8
                   0.3799
                                                              0.0277
                                         nan
                                                  0.1000
         9
##
                   0.3524
                                                  0.1000
                                                              0.0243
                                         nan
##
        10
                   0.3313
                                         nan
                                                  0.1000
                                                              0.0210
##
        20
                   0.2209
                                                              0.0033
                                         nan
                                                  0.1000
##
        40
                   0.1626
                                                  0.1000
                                                              0.0018
                                         nan
##
       60
                   0.1402
                                                  0.1000
                                                              0.0000
                                         nan
##
       80
                   0.1258
                                                  0.1000
                                                              0.0004
                                         nan
##
      100
                   0.1133
                                                  0.1000
                                                              0.0000
                                         nan
##
      120
                   0.1046
                                                  0.1000
                                                              0.0001
                                         nan
##
      140
                   0.0992
                                                  0.1000
                                                             -0.0000
                                         nan
##
      150
                   0.0945
                                         nan
                                                  0.1000
                                                              0.0004
##
                             ValidDeviance
## Iter
           TrainDeviance
                                                StepSize
                                                             Improve
##
         1
                   0.7851
                                         nan
                                                  0.1000
                                                              0.1010
##
         2
                   0.7025
                                                  0.1000
                                                              0.0738
                                         nan
##
         3
                   0.6308
                                                  0.1000
                                                              0.0717
                                         nan
##
         4
                                                              0.0579
                   0.5688
                                         nan
                                                  0.1000
         5
##
                                                  0.1000
                                                              0.0520
                   0.5146
                                         nan
##
         6
                   0.4658
                                                  0.1000
                                                              0.0499
                                         nan
         7
##
                   0.4279
                                         nan
                                                  0.1000
                                                              0.0372
##
         8
                   0.3947
                                         nan
                                                  0.1000
                                                              0.0293
##
         9
                                                              0.0272
                   0.3688
                                                  0.1000
                                         nan
##
        10
                   0.3441
                                         nan
                                                  0.1000
                                                              0.0226
##
        20
                                                  0.1000
                                                              0.0051
                   0.2257
                                         nan
##
       40
                                                              0.0003
                   0.1726
                                                  0.1000
                                         nan
##
        60
                                                              0.0001
                   0.1518
                                         nan
                                                  0.1000
##
       80
                   0.1396
                                                  0.1000
                                                              0.0001
                                         nan
##
      100
                   0.1294
                                         nan
                                                  0.1000
                                                              0.0002
##
      120
                   0.1200
                                         nan
                                                  0.1000
                                                              0.0002
##
      140
                   0.1126
                                         nan
                                                  0.1000
                                                              0.0000
##
      150
                   0.1089
                                                              0.0002
                                                  0.1000
                                         nan
# Make predictions on the test set
y_pred_gbm <- predict(model_gbm, X_test)</pre>
```

# Evaluate the model using mean squared error

```
mse_gbm <- mean((y_test - y_pred_gbm)^2)</pre>
# Calculate R-squared
r2_gbm <- cor(y_pred_gbm, y_test)^2
# Create and fit the XGBoost model
model xgb <- train(X train, y train, method = "xgbTree")</pre>
## [19:32:06] WARNING: src/c_api/c_api.cc:935: `ntree_limit` is deprecated,
use `iteration_range` instead.
## [19:32:06] WARNING: src/c_api/c_api.cc:935: `ntree_limit` is deprecated,
use `iteration range` instead.
## [19:32:06] WARNING: src/c api/c api.cc:935: `ntree limit` is deprecated,
use `iteration_range` instead.
## [19:32:06] WARNING: src/c_api/c_api.cc:935: `ntree_limit` is deprecated,
use `iteration_range` instead.
## [19:32:06] WARNING: src/c_api/c_api.cc:935: `ntree_limit` is deprecated,
use `iteration range` instead.
## [19:32:06] WARNING: src/c_api/c_api.cc:935: `ntree_limit` is deprecated,
use `iteration range` instead.
## [19:32:06] WARNING: src/c_api/c_api.cc:935: `ntree_limit` is deprecated,
use `iteration_range` instead.
## [19:32:06] WARNING: src/c_api/c_api.cc:935: `ntree_limit` is deprecated,
use `iteration range` instead.
## [19:32:07] WARNING: src/c_api/c_api.cc:935: `ntree_limit` is deprecated,
use `iteration_range` instead.
## [19:32:07] WARNING: src/c_api/c_api.cc:935: `ntree_limit` is deprecated,
use `iteration_range` instead.
## [19:32:07] WARNING: src/c api/c api.cc:935: `ntree limit` is deprecated,
use `iteration range` instead.
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# Make predictions on the test set
y pred xgb <- predict(model xgb, X test)</pre>
# Evaluate the model using mean squared error
mse xgb <- mean((y test - y pred xgb)^2)</pre>
# Calculate R-squared
r2_xgb <- cor(y_pred_xgb, y_test)^2
# Create and fit the SVM model
model svm <- train(X train, y train, method = "svmRadial")</pre>
# Make predictions on the test set
y_pred_svm <- predict(model_svm, X_test)</pre>
# Evaluate the model using mean squared error
mse_svm <- mean((y_test - y_pred_svm)^2)</pre>
# Calculate R-squared
r2_svm <- cor(y_pred_xgb, y_test)^2
#create table to compare models
metrics df <- data.frame(Model = c("Linear Regression", "Decision Tree",</pre>
"GBM", "XGBoost", "SVM"),
                          RMSE = c(mse_LR, mse_tree, mse_gbm, mse_xgb,
mse_svm),
                         R_squared = c(r2_LR, r2_tree, r2_gbm, r2_xgb,
r2_svm))
# Print the table
print(metrics df)
                 Model
                             RMSE R_squared
## 1 Linear Regression 0.4262095 0.5214246
## 2
         Decision Tree 0.4370168 0.5092996
## 3
                   GBM 0.1665639 0.8139392
               XGBoost 0.1159076 0.8703444
## 4
                   SVM 0.2509491 0.8703444
## 5
```

```
#printing feature table for linear regression model
feature importance LR <- varImp(model LR)</pre>
print(feature_importance_LR)
## lm variable importance
##
##
                                Overall
## immunazation
                                100.000
## literacy rate
                                 28.309
## domestic_health_expenditure 17.010
## GDP per capita
                                 14.246
## education expenditure
                                 11.466
## water_invest
                                  7.259
## health expenditure
                                  4.347
## water_productivity
                                  3.676
## health_expenditure_per
                                  0.000
#printing feature table for decision tree model
feature_importance_tree <- varImp(model_tree)</pre>
print(feature_importance_tree)
## rpart variable importance
##
##
                                Overall
## GDP_per_capita
                                100.000
## health_expenditure
                                 85.066
## immunazation
                                 74.809
## domestic_health_expenditure 17.300
## health_expenditure_per
                                 15.521
## water_invest
                                 10.045
## literacy_rate
                                  9.464
## water productivity
                                  0.000
## education_expenditure
                                  0.000
#printing feature table for gradient boost model
feature importance gbm <- varImp(model gbm)</pre>
print(feature_importance_gbm)
## gbm variable importance
##
                                Overall
##
## health expenditure
                                100.000
## GDP_per_capita
                                 50.399
## immunazation
                                 47.966
## domestic_health_expenditure
                                  6.493
## water_productivity
                                  5.509
## health_expenditure_per
                                  3.604
## water invest
                                  2.270
## literacy rate
                                  2.095
## education_expenditure
                                  0.000
```

```
#printing feature table for XGBoost model
feature_importance_xgb <- varImp(model_xgb)</pre>
print(feature_importance_xgb)
## xgbTree variable importance
                                Overall
##
## GDP per capita
                                100.000
## health expenditure
                                 59.749
## immunazation
                                 53.809
## water productivity
                                 11.570
## domestic health expenditure 10.071
## health_expenditure_per
                                  8.821
## water_invest
                                  6.242
## literacy_rate
                                  4.555
## education_expenditure
                                  0.000
#printing feature table for SVM model
feature_importance_svm <- varImp(model_svm)</pre>
print(feature_importance_svm)
## loess r-squared variable importance
##
##
                                Overall
## health_expenditure
                                100.000
## GDP per capita
                                 97.337
## immunazation
                                 74.854
## domestic_health_expenditure 23.158
## water_invest
                                 16.408
## health_expenditure_per
                                 15.249
## literacy_rate
                                 13.271
## water productivity
                                  3.007
## education_expenditure
                                  0.000
```