

data_science2_midterm

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```
library(tidyverse)
```

```
## — Attaching packages
```

```
tidyverse 1.2.1 —
```

```
## ✓ ggplot2 3.2.1   ✓ purrr 0.3.2
```

```
## ✓ tibble 2.1.3    ✓ dplyr 0.8.3
```

```
## ✓ tidyr 1.0.0     ✓ stringr 1.4.0
```

```
## ✓ readr 1.3.1     ✓ forcats 0.4.0
```

```
## — Conflicts
```

```
tidyverse_conflicts() —
```

```
## ✖ dplyr::filter() masks stats::filter()
```

```
## ✖ dplyr::lag()   masks stats::lag()
```

```
library(dplyr)
```

```
library(sqldf)
```

```
## Loading required package: gsubfn
```

```
## Loading required package: proto
```

```
## Warning in doTryCatch(return(expr), name, parentenv, handler): unable to load shared object  
'/Library/Frameworks/R.framework/Resources/modules//R_X11.so':
```

```
## dlopen(/Library/Frameworks/R.framework/Resources/modules//R_X11.so, 6): Library not  
loaded: /opt/X11/lib/libSM.6.dylib
```

```
## Referenced from: /Library/Frameworks/R.framework/Resources/modules//R_X11.so
```

```
## Reason: image not found
```

```
## Could not load tcltk. Will use slower R code instead.
```

```
## Loading required package: RSQLite
```

```
library(caret)
```

```
## Loading required package: lattice
```

```
##
```

```
## Attaching package: 'caret'
```

```
## The following object is masked from 'package:purrr':
```

```
##
```

```
## lift
```

```
library(ModelMetrics)
```

```
##
```

```
## Attaching package: 'ModelMetrics'
```

```
## The following objects are masked from 'package:caret':
```

```
##
```

```
## confusionMatrix, precision, recall, sensitivity, specificity
```

```
## The following object is masked from 'package:base':
```

```
##
```

```
## kappa
```

```
library(ISLR)
```

```
library(pls)
```

```
##
```

```
## Attaching package: 'pls'
```

```
## The following object is masked from 'package:caret':
```

```
##
```

```
## R2
```

```
## The following object is masked from 'package:stats':
```

```
##
```

```
## loadings
```

```
library(mgcv)
```

```
## Loading required package: nlme
```

```
##
```

```
## Attaching package: 'nlme'
```

```
## The following object is masked from 'package:dplyr':
```

```
##
```

```
## collapse
```

```
## This is mgcv 1.8-28. For overview type 'help("mgcv-package")'.
```

```
library(microbenchmark)
```

```
library(stargazer)
```

```
##
```

```
## Please cite as:
```

```
## Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.
```

```
## R package version 5.2.2. https://CRAN.R-project.org/package=stargazer
```

```
library(viridis)
## Loading required package: viridisLite
library(knitr)
```

Background / Motivation

Total hospital charges vary greatly for patients across the United States. In 2012, it was estimated that the mean hospital cost per stay was \$10,400 (Moore et al., 2014). However, the cost per stay varies by different factors, including a patient's demographic information, the severity of their health condition, and type of admission. The costs of having a baby and the costs of infant hospitalizations also differ based on many different factors. In 2004, March of Dimes reported that the average cost of having a baby was \$8,802. This cost varied by factors such as type of birth, whether it be a Cesarean-section or vaginal birth (\$10,958 vs \$7,737) (March of Dimes, 2007). This cost was also affected by the birthweight of the newborn, with the average cost per stay increasing to \$15,100 for pre-term/low birthweight babies (Russell et al, 2007). For babies born at a weight less than 1000 grams, the average cost of hospital stay was reported to be \$65,600 (Russell et al, 2007).

The ability to predict the total cost of a patient's stay at a hospital based on known patient characteristics, hospital information, and diagnosis would provide significant benefits for health insurance companies, patients, and hospital systems. If a soon-to-be mother was knowledgeable of the predicted charges of her upcoming birth at different hospitals, she would be better informed in choosing which hospital she would like to be admitted to. Additionally, a newborn/infant's parent can choose a hospital that is best for their family economically if their child is having health complications.

The goal of this analysis is to determine the best model to predict the total healthcare charges of newborn and infant patients who were admitted to hospitals in New York City. We used the Hospital Inpatient Discharges (SPARCS De-Identified) 2013 data set. This data was provided by the New York State Department of Health's Office of Quality and Patient Safety and includes 2.43 million observations and 34 variables, such as features for demographic information, hospital stay, payment typology, cost information.

In order to load the dataset to my computer, this dataset was limited (through the NY State's website filter) to the hospital service area of New York City and includes information from hospitals in all five boroughs. The dataset was limited to include only patients who had birthweight information available, recorded during their hospital stay. Over 150+ CCS diagnosis codes were included in the original dataset. The CCS diagnosis codes were categorized into 17 diagnosis types, such as "infectious diseases" and "pregnancy and childbirth complications." Individuals with missing values ($n = 119$) were dropped from the dataset, totaling 121,380 patients in the final dataset.

Nineteen variables were dropped from the dataset. Variables were dropped if they were redundant of other variables or if they were not deemed to be clinically meaningful in predicting healthcare hospitalization charges. All categorical variables were turned into dummy variables with referent groups. The final dataset used for models in this analysis (with dummy variables) included 92 predictors and 1 response variable (total charges).

Our research questions were the following: • Which approach (linear regression, lasso regression, ridge regression, principle component regression, or generalized additive model) best predicts a patient's total healthcare charges per hospital stay in New York? • What is the root mean square error (RMSE) of each model? • What percent of the variance in total healthcare charges is explained by the predictors available in SPARCS?

Import and clean data

```
discharge_data = read_csv("/data/Hospital_Inpatient_Discharges__SPARCS_De-
Identified__2013-4.csv") %>%
janitor::clean_names() %>%
mutate(birth_weight = as.numeric(birth_weight)) %>%
mutate(length_of_stay = as.numeric(length_of_stay)) %>%
janitor::clean_names() %>%
select(-ccs_diagnosis_description, -ccs_procedure_code, -ccs_procedure_description, -
apr_drg_description, -apr_mdc_description, -apr_severity_of_illness_description, -facility_id, -
payment_typology_2, -payment_typology_3, -zip_code_3_digits, -discharge_year, -
health_service_area, -operating_certificate_number, -abortion_edit_indicator, -patient_disposition, -
age_group, -apr_drg_code, -apr_mdc_code) %>%
filter(type_of_admission != "Not Available", payment_typology_1 != "Unknown",
payment_typology_1 != "Miscellaneous/Other", apr_medical_surgical_description != "Not
Applicable") %>%
mutate(ccs = ifelse(ccs_diagnosis_code %in% 1:10, "infectious_disease",
```

```

        ifelse(ccs_diagnosis_code %in% 11:47, "cancer",
        ifelse(ccs_diagnosis_code %in% 48:58, "endocrine_metabolic_disease",
        ifelse(ccs_diagnosis_code %in% 59:64, "blood_diseases",
        ifelse(ccs_diagnosis_code %in% 76:95, "nervous_system_disease",
        ifelse(ccs_diagnosis_code %in% 96:121, "circulatory_sysytem_disease",
        ifelse(ccs_diagnosis_code %in% 122:134, "respiratory_disease",
        ifelse(ccs_diagnosis_code %in% 135:155, "digestive_disease",
        ifelse(ccs_diagnosis_code %in% 156:166, "genitourinary_disease",
        ifelse(ccs_diagnosis_code %in% 167:196, "pregnancy_childbirth_complication",
        ifelse(ccs_diagnosis_code %in% 197:200, "skin_disease",
        ifelse(ccs_diagnosis_code %in% 201:212, "musculoskeletal_disease",
        ifelse(ccs_diagnosis_code %in% 213:217, "congenital_anomalies",
        ifelse(ccs_diagnosis_code %in% 218:224, "perinatal_condition",
        ifelse(ccs_diagnosis_code %in% 225:244, "injury_poisoning",
        ifelse(ccs_diagnosis_code %in% 650:663, "mental_disorder", "other")))))))))))))))

%>%
select(-ccs_diagnosis_code) %>%
na.omit()
## Parsed with column specification:
## cols(
##   .default = col_character(),
##   `Operating Certificate Number` = col_double(),
##   `Facility ID` = col_double(),
##   `Zip Code - 3 digits` = col_double(),
##   `Discharge Year` = col_double(),
##   `CCS Diagnosis Code` = col_double(),
##   `CCS Procedure Code` = col_double(),
##   `APR DRG Code` = col_double(),
##   `APR MDC Code` = col_double(),
##   `APR Severity of Illness Code` = col_double(),
##   `Birth Weight` = col_double(),
##   `Total Charges` = col_double(),
##   `Total Costs` = col_double()
## )
## See spec(...) for full column specifications.
## Warning: 3301 parsing failures.
## row      col expected actual      file
## 2649 Zip Code - 3 digits a double OOS '/data/Hospital_Inpatient_Discharges__SPARCS_De-
Identified__2013-4.csv'
## 3543 Zip Code - 3 digits a double OOS '/data/Hospital_Inpatient_Discharges__SPARCS_De-
Identified__2013-4.csv'
## 3670 Zip Code - 3 digits a double OOS '/data/Hospital_Inpatient_Discharges__SPARCS_De-
Identified__2013-4.csv'
## 3838 Zip Code - 3 digits a double OOS '/data/Hospital_Inpatient_Discharges__SPARCS_De-
Identified__2013-4.csv'
## 3937 Zip Code - 3 digits a double OOS '/data/Hospital_Inpatient_Discharges__SPARCS_De-
Identified__2013-4.csv'
## ....
## See problems(...) for more details.
## Warning: NAs introduced by coercion

```

Exploratory Analysis Findings / Visualization

This dataset includes 121,380 patients who had their birthweight recorded at the time of their hospital visit. The mean total charges for a patient at discharge across the 49 hospital facilities was \$19,787.95. The median total charges for a patient was \$6,590.02. For exploratory analysis, we compared the median total charges because there were extreme outliers with very high charges. The median is a better measure of central tendency than the mean. The median total charges varied widely across the 49 facilities included in this analysis. The median total charges for a patient at discharge were highest at Montefiore Medical Center - Henry & Lucy Moses Div (\$25,160.36) and lowest at North Central Bronx Hospital (\$2,407.01) (Table 1).

In Figure 1, there is a positive correlation between length of stay and the total charges at discharge. The relationship between length of stay and total charges demonstrates linearity. Thus, as the length of stay increases, the total charges increased. The charges appear to be relatively lower at hospitals in Richmond County (Staten Island), even as the number of days spent in the hospital increases. Additionally, it appears that the charges at hospitals in Manhattan are typically higher compared to other counties across the lengths of stay.

Figure 2 demonstrates that the total charges generally decrease across increasing birthweight. There is a moderately negative correlation between baby birthweight and total charges. Thus, patients with lower birthweights pay the highest total charges at discharge.

Table 1

#Table 1. Median Total Charges by Hospital Facility

charges_by_hospital = discharge_data %>%

select(facility_name, total_charges, hospital_county) %>%

group_by(facility_name, hospital_county) %>%

summarize(median_charge = median(total_charges)) %>%

arrange(desc(median_charge)) %>%

knitr::kable()

charges_by_hospital

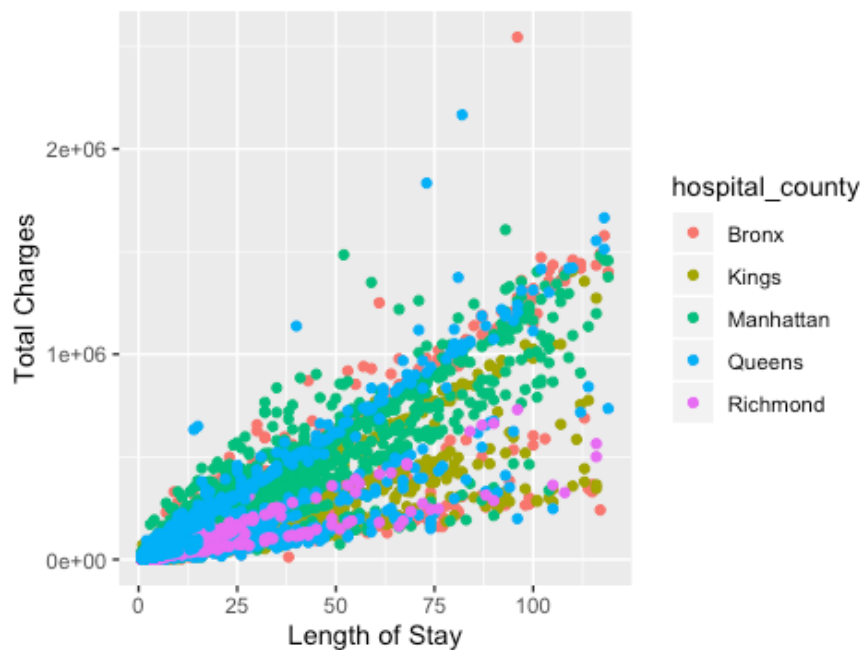
| facility_name | hospital_county | median_charge |
|--|-----------------|---------------|
| Montefiore Medical Center - Henry & Lucy Moses Div | Bronx | 25160.36 |
| Brookdale Hospital Medical Center | Kings | 11561.00 |
| Long Island Jewish Schneiders Children's Hospital Division | Queens | 11498.00 |
| NYU Hospitals Center | Manhattan | 10573.70 |
| New York Presbyterian Hospital - Columbia Presbyterian Center | Manhattan | 9383.75 |
| New York-Presbyterian/Queens | Queens | 9361.96 |
| New York Presbyterian Hospital - Allen Hospital | Manhattan | 9335.04 |
| New York Presbyterian Hospital - New York Weill Cornell Center | Manhattan | 8879.03 |
| Lenox Hill Hospital | Manhattan | 8868.30 |
| Montefiore Medical Center-Wakefield Hospital | Bronx | 8520.85 |
| Montefiore Medical Center - North Division | Bronx | 8083.35 |
| Forest Hills Hospital | Queens | 7946.70 |
| Mount Sinai West | Manhattan | 7897.00 |
| New York Hospital Medical Center of Queens | Queens | 7592.46 |
| New York Hospital Medical Center of Queens | Queens | 7522.46 |
| Montefiore Med Center - Jack D Weiler Hosp of A Einstein College Div | Bronx | 7136.95 |
| University Hospital of Brooklyn | Kings | 6771.00 |
| New York-Presbyterian/Queens | Queens | 6744.78 |
| Coney Island Hospital | Kings | 6331.11 |
| Mount Sinai Roosevelt | Manhattan | 6314.50 |
| Lutheran Medical Center | Kings | 6286.70 |
| St Lukes Roosevelt Hospital Center - Roosevelt Hospital Division | Manhattan | 5980.50 |
| New York Methodist Hospital | Kings | 5719.94 |
| Beth Israel Medical Center/Petrie Campus | Manhattan | 5676.00 |
| Mount Sinai Beth Israel | Manhattan | 5673.40 |
| SUNY Downstate Medical Center at LICH | Kings | 5367.00 |
| Maimonides Medical Center | Kings | 4993.00 |
| St Johns Episcopal Hospital So Shore | Queens | 4910.00 |
| Staten Island University Hosp-North | Richmond | 4820.00 |
| Mount Sinai Hospital | Manhattan | 4787.20 |
| Woodhull Medical & Mental Health Center | Kings | 4547.34 |
| Kings County Hospital Center | Kings | 4540.02 |
| Queens Hospital Center | Queens | 4527.31 |
| Bellevue Hospital Center | Manhattan | 4527.26 |
| Brooklyn Hospital Center - Downtown Campus | Kings | 4470.44 |
| Jacobi Medical Center | Bronx | 4461.91 |
| Richmond University Medical Center | Richmond | 4438.52 |
| St Barnabas Hospital | Bronx | 4394.39 |
| SBH Health System | Bronx | 4391.21 |
| Lincoln Medical & Mental Health Center | Bronx | 4376.42 |
| Harlem Hospital Center | Manhattan | 4361.67 |
| Wyckoff Heights Medical Center | Kings | 4335.00 |

| | | |
|--|-----------|---------|
| Metropolitan Hospital Center | Manhattan | 4299.00 |
| Elmhurst Hospital Center | Queens | 4285.44 |
| Jamaica Hospital Medical Center | Queens | 3692.00 |
| New York-Presbyterian/Lower Manhattan Hospital | Manhattan | 3498.26 |
| Flushing Hospital Medical Center | Queens | 3397.00 |
| Bronx-Lebanon Hospital Center - Concourse Division | Bronx | 3370.57 |
| North Central Bronx Hospital | Bronx | 2407.01 |
| #mean total charges = \$19,787.95 | | |
| mean(discharge_data\$total_charges) | | |
| ## [1] 19787.95 | | |
| #median total charges = \$6590.02 | | |
| median(discharge_data\$total_charges) | | |
| ## [1] 6590.015 | | |

Figures 1 and 2

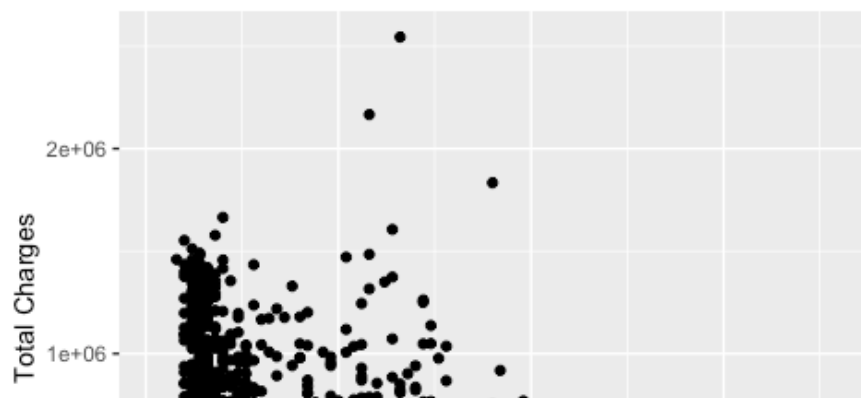
```
ggplot(discharge_data, aes(x = length_of_stay, y = total_charges, group = hospital_county, color = hospital_county)) +
  geom_point(na.rm = TRUE) +
  labs(title = "Figure 1. Total Charges by Length of Stay in NYC Hospitals",
       x = "Length of Stay",
       y = "Total Charges")
```

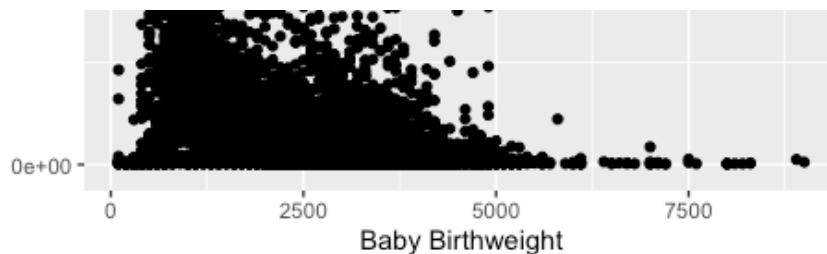
Figure 1. Total Charges by Length of Stay in NYC Hospitals



```
ggplot(discharge_data, aes(x = birth_weight, y = total_charges, group = emergency_department_indicator)) +
  geom_point(na.rm = TRUE) +
  labs(title = "Figure 2. Total Charges Across Values of Baby Birthweight in NYC Hospitals",
       x = "Baby Birthweight",
       y = "Total Charges")
```

Figure 2. Total Charges Across Values of Baby Birthweight in NYC Hospitals





Making categorical variables into dummy variables

```
cat_dummies = dummyVars("~.", data = discharge_data, fullRank = T)
discharge_data2 = data.frame(predict(cat_dummies, newdata = discharge_data))
```

Partitioning data into test and training data

```
set.seed(100)
trRows <- createDataPartition(discharge_data2$total_charges,
                              p = .75,
                              list = FALSE)

## p = 0.75 means u are taking 75% of the data and thus, 25% is the test set and 75% is ur training set

# matrix of predictors & vector of response (training data)
x <- model.matrix(total_charges~.,discharge_data2)[trRows,-1]
y <- discharge_data2$total_charges[trRows]

# matrix of predictors & vector of response (test data)
x2 <- model.matrix(total_charges~., discharge_data2)[-trRows,-1]
y2 <- discharge_data2$total_charges[-trRows]
```

MODELS

Models We fit 5 different models using cross validation to determine which model would fit the data best: • One linear model, • Three regularized linear models (Lasso regression, Ridge regression, PCR), and • One non-linear model (Generalized Additive Model).

Predictor variables included: 1) hospital county (Manhattan, Bronx, King's County, Richmond County, and Queens), 2) hospital facility, 3)gender, 4) race, 5) ethnicity, 6) length of stay, 7) type of admission, 8) APR severity of illness code, 9) APR medical-surgical description (medical or surgical), 10) type of payment, 11) birth weight, 12) emergency department indicator, 13) APR risk of mortality, 14) total costs, and 15) type of CCS diagnosis. All categorical variables were made into dummy variables. Three predictors were continuous (length of stay, birthweight, and total costs) as well as the outcome variable (total charges).

Our dataset (92 predictors total, with dummy variables) was partitioned into a training and test data set. Five models were fitted using the training data and the mean squared error (MSE) was calculated for each model using the test data. We measured the mean squared error to quantify the extent to which the predicted response value for a given observation is close to the true response value for that observation.

First, we fit a linear model using least squares on all the predictors in the training data. We found that the MSE calculated on the test data was 937604771. By looking at the coefficient values for the linear model, some of the dummy variables were not significant at an alpha value of 0.05 in predicting total charges, including ethnicity, emergency department indicator, and certain CCS diagnosis types.

Next, we fit two models on all the predictor variables using two different techniques that “shrink” the coefficient estimates towards zero, which reduces variance. We fit a ridge regression model on the training data. Alpha was held at a value of 0 and our final lambda value chosen by cross-validation was 5355.389. Using our test data, we found that test error (MSE) was 9790669585. Next, we fit a lasso model on the training data. Alpha was held at a value of 1 and our final lambda value chosen by cross-validation was 28.03162. Our test error was 937116653.

We also fit a principle component regression (PCR) model on the training data with M chosen by cross validation. The PCR method constructs the first M principal components. Our M-value was 87 and our test error was 937635353. A benefit of using PCR is that this method avoids multicollinearity between variables in the dataset. A limitation of PCR is that there is no guarantee that Z_{-m} are the best linear combinations of the variables in


```

## Linear Regression
##
## 91036 samples
## 91 predictor
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 81932, 81933, 81933, 81933, 81932, 81933, ...
## Resampling results:
##
## RMSE   Rsquared  MAE
## 28174.24 0.8568802 9541.894
##
## Tuning parameter 'intercept' was held constant at a value of TRUE
summary(fit_lm)
##
## Call:
## lm(formula = .outcome ~ ., data = dat)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -726284  -4513    436    5124   851654
##
## Coefficients: (3 not defined because of singularities)
##                                     Estimate
## (Intercept)                        -7.858e+03
## hospital_countyManhattan            -1.095e+03
## hospital_countyQueens                3.870e+03
## hospital_countyRichmond              2.663e+03
## facility_nameBeth.Israel.Medical.Center.Petrie.Campus    1.445e+04
## facility_nameBronx.Lebanon.Hospital.Center...Concourse.Division -9.793e+03
## facility_nameBrookdale.Hospital.Medical.Center          1.176e+03
## facility_nameBrooklyn.Hospital.Center...Downtown.Campus  1.497e+03
## facility_nameConey.Island.Hospital                      5.707e+03
## facility_nameElmhurst.Hospital.Center                   -3.334e+02
## facility_nameFlushing.Hospital.Medical.Center           2.240e+03
## facility_nameForest.Hills.Hospital                      7.721e+03
## facility_nameHarlem.Hospital.Center                     -2.544e+03
## facility_nameJacobi.Medical.Center                      -1.627e+03
## facility_nameJamaica.Hospital.Medical.Center            -2.184e+03
## facility_nameKings.County.Hospital.Center               8.359e+02
## facility_nameLenox.Hill.Hospital                       2.030e+04
## facility_nameLincoln.Medical...Mental.Health.Center     -5.839e+02
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division 1.920e+04
## facility_nameLutheran.Medical.Center                    1.169e+04
## facility_nameMaimonides.Medical.Center                  1.436e+04
## facility_nameMetropolitan.Hospital.Center               1.854e+03
## facility_nameMontefiore.Med.Center...Jack.D.Weiler.Hosp.of.A.Einstein.College.Div 2.304e+04
## facility_nameMontefiore.Medical.Center...Henry...Lucy.Moses.Div    3.752e+04
## facility_nameMontefiore.Medical.Center...North.Division    2.113e+04
## facility_nameMontefiore.Medical.Center.Wakefield.Hospital    2.002e+04
## facility_nameMount.Sinai.Beth.Israel                    1.403e+04
## facility_nameMount.Sinai.Hospital                      9.239e+03
## facility_nameMount.Sinai.Roosevelt                     4.829e+03
## facility_nameMount.Sinai.West                          -1.559e+04
## facility_nameNew.York.Hospital.Medical.Center...of.Queens    9.083e+03
## facility_nameNew.York.Hospital.Medical.Center.of.Queens     9.644e+03
## facility_nameNew.York.Methodist.Hospital                9.626e+03
## facility_nameNew.York.Presbyterian.Hospital...Allen.Hospital  1.488e+04
## facility_nameNew.York.Presbyterian.Hospital...Columbia.Presbyterian.Center 2.382e+04
## facility_nameNew.York.Presbyterian.Hospital...New.York.Weill.Cornell.Center 1.835e+04
## facility_nameNew.York.Presbyterian.Lower.Manhattan.Hospital  1.119e+04
## facility_nameNew.York.Presbyterian.Queens               9.595e+03
## facility_nameNewYork.Presbyterian.Queens                7.077e+03
## facility_nameNorth.Central.Bronx.Hospital               1.853e+03
## facility_nameNYU.Hospitals.Center                       1.479e+04
## facility_nameQueens.Hospital.Center                    -1.758e+03
## facility_nameRichmond.University.Medical.Center         5.886e+03
## facility_nameSBH.Health.System                         -3.406e+03
## facility_nameSt.Barnabas.Hospital                      -9.094e+02
## facility_nameSt.Johns.Episcopal.Hospital.So.Shore        NA
## facility_nameSt.Lukes.Roosevelt.Hospital.Center...Roosevelt.Hospital.Division 8.133e+03
## facility_nameStaten.Island.University.Hosp.North        NA
## facility_nameSUNY.Downstate.Medical.Center.at.LICH       -4.371e+03
## facility_nameUniversity.Hospital.of.Brooklyn            -1.109e+04

```


| | |
|--|------------|
| ## facility_nameUniversity.Hospital.Brooklyn | -1.102e+07 |
| ## facility_nameWoodhull.Medical...Mental.Health.Center | 1.790e+02 |
| ## facility_nameWyckoff.Heights.Medical.Center | NA |
| ## genderM | -3.604e+02 |
| ## raceOther.Race | 7.354e+02 |
| ## raceUnknown | 3.197e+03 |
| ## raceWhite | 1.541e+02 |
| ## ethnicitySpanish.Hispanic | 2.984e+02 |
| ## ethnicityUnknown | 1.596e+03 |
| ## length_of_stay | 5.717e+03 |
| ## type_of_admissionEmergency | 4.938e+03 |
| ## type_of_admissionNewborn | 5.850e+03 |
| ## type_of_admissionUrgent | 3.143e+04 |
| ## apr_severity_of_illness_code | -1.800e+02 |
| ## apr_risk_of_mortalityMajor | -3.026e+04 |
| ## apr_risk_of_mortalityMinor | -5.904e+04 |
| ## apr_risk_of_mortalityModerate | -6.198e+04 |
| ## apr_medical_surgical_descriptionSurgical | 7.096e+04 |
| ## payment_typology_1Federal.State.Local.VA | -6.991e+02 |
| ## payment_typology_1Managed.Care..Unspecified | -1.078e+04 |
| ## payment_typology_1Medicaid | 6.376e+02 |
| ## payment_typology_1Medicare | -1.497e+03 |
| ## payment_typology_1Private.Health.Insurance | -1.245e+02 |
| ## payment_typology_1Self.Pay | 2.530e+03 |
| ## birth_weight | 2.079e+00 |
| ## emergency_department_indicatorY | 6.417e+02 |
| ## total_costs | 1.192e+00 |
| ## ccscancer | 4.014e+04 |
| ## ccscirculatory_sysytem_disease | 1.262e+04 |
| ## ccscongenital_anomalies | 1.412e+04 |
| ## ccsdigestive_disease | 1.787e+04 |
| ## ccsendocrine_metabolic_disease | 2.766e+04 |
| ## ccsgenitourinary_disease | 3.006e+04 |
| ## ccsinfectious_disease | 1.066e+04 |
| ## ccsinjury_poisoning | 2.328e+04 |
| ## ccsmmental_disorder | -2.339e+04 |
| ## ccsmusculoskeletal_disease | 5.193e+04 |
| ## ccsnervous_system_disease | 2.234e+04 |
| ## ccsother | 3.757e+04 |
| ## ccsprenatal_condition | 3.470e+04 |
| ## ccspregnancy_childbirth_complication | 2.386e+04 |
| ## ccrespiratory_disease | 3.314e+04 |
| ## ccsskin_disease | 3.678e+04 |
| ## | Std. Error |
| ## (Intercept) | 1.643e+04 |
| ## hospital_countyManhattan | 1.259e+03 |
| ## hospital_countyQueens | 1.575e+03 |
| ## hospital_countyRichmond | 1.074e+03 |
| ## facility_nameBeth.Israel.Medical.Center.Petrie.Campus | 1.055e+03 |
| ## facility_nameBronx.Lebanon.Hospital.Center...Concourse.Division | 1.306e+03 |
| ## facility_nameBrookdale.Hospital.Medical.Center | 1.313e+03 |
| ## facility_nameBrooklyn.Hospital.Center...Downtown.Campus | 1.121e+03 |
| ## facility_nameConey.Island.Hospital | 1.677e+03 |
| ## facility_nameElmhurst.Hospital.Center | 1.418e+03 |
| ## facility_nameFlushing.Hospital.Medical.Center | 1.434e+03 |
| ## facility_nameForest.Hills.Hospital | 1.479e+03 |
| ## facility_nameHarlem.Hospital.Center | 1.438e+03 |
| ## facility_nameJacobi.Medical.Center | 1.103e+03 |
| ## facility_nameJamaica.Hospital.Medical.Center | 1.433e+03 |
| ## facility_nameKings.County.Hospital.Center | 1.128e+03 |
| ## facility_nameLenox.Hill.Hospital | 1.052e+03 |
| ## facility_nameLincoln.Medical...Mental.Health.Center | 1.120e+03 |
| ## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division | 1.361e+03 |
| ## facility_nameLutheran.Medical.Center | 1.028e+03 |
| ## facility_nameMaimonides.Medical.Center | 9.667e+02 |
| ## facility_nameMetropolitan.Hospital.Center | 1.285e+03 |
| ## facility_nameMontefiore.Med.Center...Jack.D.Weiler.Hosp.of.A.Einstein.College.Div | 1.025e+03 |
| ## facility_nameMontefiore.Medical.Center...Henry...Lucy.Moses.Div | 2.171e+03 |
| ## facility_nameMontefiore.Medical.Center...North.Division | 1.169e+03 |
| ## facility_nameMontefiore.Medical.Center.Wakefield.Hospital | 1.487e+03 |
| ## facility_nameMount.Sinai.Beth.Israel | 2.501e+03 |
| ## facility_nameMount.Sinai.Hospital | 9.982e+02 |
| ## facility_nameMount.Sinai.Roosevelt | 2.183e+03 |
| ## facility_nameMount.Sinai.West | 9.975e+03 |
| ## facility_nameNew.York.Hospital.Medical.Center...of.Queens | 1.401e+03 |

| | |
|--|-----------|
| ## facility_nameNew.York.Hospital.Medical.Center.of.Queens | 2.124e+03 |
| ## facility_nameNew.York.Methodist.Hospital | 1.005e+03 |
| ## facility_nameNew.York.Presbyterian.Hospital...Allen.Hospital | 1.150e+03 |
| ## facility_nameNew.York.Presbyterian.Hospital...Columbia.Presbyterian.Center | 1.023e+03 |
| ## facility_nameNew.York.Presbyterian.Hospital...New.York.Weill.Cornell.Center | 1.012e+03 |
| ## facility_nameNew.York.Presbyterian.Lower.Manhattan.Hospital | 1.139e+03 |
| ## facility_nameNew.York.Presbyterian.Queens | 2.812e+04 |
| ## facility_nameNewYork.Presbyterian.Queens | 1.154e+04 |
| ## facility_nameNorth.Central.Bronx.Hospital | 1.410e+03 |
| ## facility_nameNYU.Hospitals.Center | 1.039e+03 |
| ## facility_nameQueens.Hospital.Center | 1.504e+03 |
| ## facility_nameRichmond.University.Medical.Center | 8.584e+02 |
| ## facility_nameSBH.Health.System | 3.505e+03 |
| ## facility_nameSt.Barnabas.Hospital | 1.439e+03 |
| ## facility_nameSt.Johns.Episcopal.Hospital.So.Shore | NA |
| ## facility_nameSt.Lukes.Roosevelt.Hospital.Center...Roosevelt.Hospital.Division | 1.017e+03 |
| ## facility_nameStaten.Island.University.Hosp.North | NA |
| ## facility_nameSUNY.Downstate.Medical.Center.at.LICH | 1.588e+03 |
| ## facility_nameUniversity.Hospital.of.Brooklyn | 1.233e+03 |
| ## facility_nameWoodhull.Medical...Mental.Health.Center | 1.146e+03 |
| ## facility_nameWyckoff.Heights.Medical.Center | NA |
| ## genderM | 1.877e+02 |
| ## raceOther.Race | 2.845e+02 |
| ## raceUnknown | 8.501e+03 |
| ## raceWhite | 3.074e+02 |
| ## ethnicitySpanish.Hispanic | 2.789e+02 |
| ## ethnicityUnknown | 8.511e+02 |
| ## length_of_stay | 3.188e+01 |
| ## type_of_admissionEmergency | 2.317e+03 |
| ## type_of_admissionNewborn | 2.093e+03 |
| ## type_of_admissionUrgent | 2.456e+03 |
| ## apr_severity_of_illness_code | 1.736e+02 |
| ## apr_risk_of_mortalityMajor | 1.867e+03 |
| ## apr_risk_of_mortalityMinor | 1.685e+03 |
| ## apr_risk_of_mortalityModerate | 1.761e+03 |
| ## apr_medical_surgical_descriptionSurgical | 1.528e+03 |
| ## payment_typology_1Federal.State.Local.VA | 2.162e+03 |
| ## payment_typology_1Managed.Care..Unspecified | 3.745e+03 |
| ## payment_typology_1Medicaid | 3.233e+02 |
| ## payment_typology_1Medicare | 2.153e+03 |
| ## payment_typology_1Private.Health.Insurance | 3.221e+02 |
| ## payment_typology_1Self.Pay | 7.215e+02 |
| ## birth_weight | 1.823e-01 |
| ## emergency_department_indicatorY | 1.208e+03 |
| ## total_costs | 1.117e-02 |
| ## ccscancer | 1.905e+04 |
| ## ccscirculatory_sysytem_disease | 2.297e+04 |
| ## ccscongenital_anomalies | 1.636e+04 |
| ## ccsdigestive_disease | 1.675e+04 |
| ## ccsendocrine_metabolic_disease | 1.779e+04 |
| ## ccsgenitourinary_disease | 1.749e+04 |
| ## ccsinfectious_disease | 1.649e+04 |
| ## ccsinjury_poisoning | 1.703e+04 |
| ## ccsmmental_disorder | 2.055e+04 |
| ## ccsmusculoskeletal_disease | 3.248e+04 |
| ## ccsnervous_system_disease | 1.702e+04 |
| ## ccsother | 1.644e+04 |
| ## ccsprenatal_condition | 1.626e+04 |
| ## ccspregnancy_childbirth_complication | 2.149e+04 |
| ## ccsprespiratory_disease | 1.639e+04 |
| ## ccsskin_disease | 1.781e+04 |
| ## | t value |
| ## (Intercept) | -0.478 |
| ## hospital_countyManhattan | -0.870 |
| ## hospital_countyQueens | 2.458 |
| ## hospital_countyRichmond | 2.481 |
| ## facility_nameBeth.Israel.Medical.Center.Petrie.Campus | 13.700 |
| ## facility_nameBronx.Lebanon.Hospital.Center...Concourse.Division | -7.499 |
| ## facility_nameBrookdale.Hospital.Medical.Center | 0.896 |
| ## facility_nameBrooklyn.Hospital.Center...Downtown.Campus | 1.336 |
| ## facility_nameConey.Island.Hospital | 3.403 |
| ## facility_nameElmhurst.Hospital.Center | -0.235 |
| ## facility_nameFlushing.Hospital.Medical.Center | 1.562 |
| ## facility_nameForest.Hills.Hospital | 5.221 |
| ## facility_nameHarlem.Hospital.Center | -1.769 |
| ## facility_nameJamaica.Medical.Center | 1.475 |

| | |
|--|---------|
| ## facility_nameJacobi.Medical.Center | -1.475 |
| ## facility_nameJamaica.Hospital.Medical.Center | -1.525 |
| ## facility_nameKings.County.Hospital.Center | 0.741 |
| ## facility_nameLenox.Hill.Hospital | 19.304 |
| ## facility_nameLincoln.Medical...Mental.Health.Center | -0.521 |
| ## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division | 14.114 |
| ## facility_nameLutheran.Medical.Center | 11.376 |
| ## facility_nameMaimonides.Medical.Center | 14.854 |
| ## facility_nameMetropolitan.Hospital.Center | 1.443 |
| ## facility_nameMontefiore.Med.Center...Jack.D.Weiler.Hosp.of.A.Einstein.College.Div | 22.477 |
| ## facility_nameMontefiore.Medical.Center...Henry...Lucy.Moses.Div | 17.280 |
| ## facility_nameMontefiore.Medical.Center...North.Division | 18.070 |
| ## facility_nameMontefiore.Medical.Center.Wakefield.Hospital | 13.465 |
| ## facility_nameMount.Sinai.Beth.Israel | 5.609 |
| ## facility_nameMount.Sinai.Hospital | 9.256 |
| ## facility_nameMount.Sinai.Roosevelt | 2.212 |
| ## facility_nameMount.Sinai.West | -1.563 |
| ## facility_nameNew.York.Hospital.Medical.Center...of.Queens | 6.483 |
| ## facility_nameNew.York.Hospital.Medical.Center.of.Queens | 4.541 |
| ## facility_nameNew.York.Methodist.Hospital | 9.578 |
| ## facility_nameNew.York.Presbyterian.Hospital...Allen.Hospital | 12.946 |
| ## facility_nameNew.York.Presbyterian.Hospital...Columbia.Presbyterian.Center | 23.281 |
| ## facility_nameNew.York.Presbyterian.Hospital...New.York.Weill.Cornell.Center | 18.138 |
| ## facility_nameNew.York.Presbyterian.Lower.Manhattan.Hospital | 9.828 |
| ## facility_nameNew.York.Presbyterian.Queens | 0.341 |
| ## facility_nameNewYork.Presbyterian.Queens | 0.613 |
| ## facility_nameNorth.Central.Bronx.Hospital | 1.314 |
| ## facility_nameNYU.Hospitals.Center | 14.236 |
| ## facility_nameQueens.Hospital.Center | -1.169 |
| ## facility_nameRichmond.University.Medical.Center | 6.857 |
| ## facility_nameSBH.Health.System | -0.972 |
| ## facility_nameSt.Barnabas.Hospital | -0.632 |
| ## facility_nameSt.Johns.Episcopal.Hospital.So.Shore | NA |
| ## facility_nameSt.Lukes.Roosevelt.Hospital.Center...Roosevelt.Hospital.Division | 7.994 |
| ## facility_nameStaten.Island.University.Hosp.North | NA |
| ## facility_nameSUNY.Downstate.Medical.Center.at.LICH | -2.753 |
| ## facility_nameUniversity.Hospital.of.Brooklyn | -8.996 |
| ## facility_nameWoodhull.Medical...Mental.Health.Center | 0.156 |
| ## facility_nameWyckoff.Heights.Medical.Center | NA |
| ## genderM | -1.920 |
| ## raceOther.Race | 2.585 |
| ## raceUnknown | 0.376 |
| ## raceWhite | 0.501 |
| ## ethnicitySpanish.Hispanic | 1.070 |
| ## ethnicityUnknown | 1.875 |
| ## length_of_stay | 179.336 |
| ## type_of_admissionEmergency | 2.131 |
| ## type_of_admissionNewborn | 2.795 |
| ## type_of_admissionUrgent | 12.799 |
| ## apr_severity_of_illness_code | -1.037 |
| ## apr_risk_of_mortalityMajor | -16.208 |
| ## apr_risk_of_mortalityMinor | -35.036 |
| ## apr_risk_of_mortalityModerate | -35.204 |
| ## apr_medical_surgical_descriptionSurgical | 46.433 |
| ## payment_typology_1Federal.State.Local.VA | -0.323 |
| ## payment_typology_1Managed.Care..Unspecified | -2.879 |
| ## payment_typology_1Medicaid | 1.972 |
| ## payment_typology_1Medicare | -0.695 |
| ## payment_typology_1Private.Health.Insurance | -0.386 |
| ## payment_typology_1Self.Pay | 3.506 |
| ## birth_weight | 11.405 |
| ## emergency_department_indicatorY | 0.531 |
| ## total_costs | 106.676 |
| ## ccscancer | 2.107 |
| ## ccscirculatory_sysytem_disease | 0.549 |
| ## ccscongenital_anomalies | 0.863 |
| ## ccsdigestive_disease | 1.067 |
| ## ccsendocrine_metabolic_disease | 1.555 |
| ## ccsgenitourinary_disease | 1.719 |
| ## ccsinfectious_disease | 0.647 |
| ## ccsinjury_poisoning | 1.368 |
| ## ccsmmental_disorder | -1.138 |
| ## ccsmusculoskeletal_disease | 1.599 |
| ## ccsnervous_system_disease | 1.313 |
| ## ccsother | 2.285 |
| ## ccspерinatal_condition | 2.134 |

| | |
|--|----------|
| ## ccspregnancy_childbirth_complication | 1.111 |
| ## ccrespiratory_disease | 2.022 |
| ## ccsskin_disease | 2.065 |
| ## | Pr(> t) |
| ## (Intercept) | 0.632492 |
| ## hospital_countyManhattan | 0.384211 |
| ## hospital_countyQueens | 0.013983 |
| ## hospital_countyRichmond | 0.013119 |
| ## facility_nameBeth.Israel.Medical.Center.Petrie.Campus | < 2e-16 |
| ## facility_nameBronx.Lebanon.Hospital.Center...Concourse.Division | 6.49e-14 |
| ## facility_nameBrookdale.Hospital.Medical.Center | 0.370195 |
| ## facility_nameBrooklyn.Hospital.Center...Downtown.Campus | 0.181646 |
| ## facility_nameConey.Island.Hospital | 0.000666 |
| ## facility_nameElmhurst.Hospital.Center | 0.814054 |
| ## facility_nameFlushing.Hospital.Medical.Center | 0.118235 |
| ## facility_nameForest.Hills.Hospital | 1.78e-07 |
| ## facility_nameHarlem.Hospital.Center | 0.076853 |
| ## facility_nameJacobi.Medical.Center | 0.140213 |
| ## facility_nameJamaica.Hospital.Medical.Center | 0.127350 |
| ## facility_nameKings.County.Hospital.Center | 0.458735 |
| ## facility_nameLenox.Hill.Hospital | < 2e-16 |
| ## facility_nameLincoln.Medical...Mental.Health.Center | 0.602027 |
| ## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division | < 2e-16 |
| ## facility_nameLutheran.Medical.Center | < 2e-16 |
| ## facility_nameMaimonides.Medical.Center | < 2e-16 |
| ## facility_nameMetropolitan.Hospital.Center | 0.148982 |
| ## facility_nameMontefiore.Med.Center...Jack.D.Weiler.Hosp.of.A.Einstein.College.Div | < 2e-16 |
| ## facility_nameMontefiore.Medical.Center...Henry...Lucy.Moses.Div | < 2e-16 |
| ## facility_nameMontefiore.Medical.Center...North.Division | < 2e-16 |
| ## facility_nameMontefiore.Medical.Center.Wakefield.Hospital | < 2e-16 |
| ## facility_nameMount.Sinai.Beth.Israel | 2.04e-08 |
| ## facility_nameMount.Sinai.Hospital | < 2e-16 |
| ## facility_nameMount.Sinai.Roosevelt | 0.026938 |
| ## facility_nameMount.Sinai.West | 0.118057 |
| ## facility_nameNew.York.Hospital.Medical.Center...of.Queens | 9.02e-11 |
| ## facility_nameNew.York.Hospital.Medical.Center.of.Queens | 5.60e-06 |
| ## facility_nameNew.York.Methodist.Hospital | < 2e-16 |
| ## facility_nameNew.York.Presbyterian.Hospital...Allen.Hospital | < 2e-16 |
| ## facility_nameNew.York.Presbyterian.Hospital...Columbia.Presbyterian.Center | < 2e-16 |
| ## facility_nameNew.York.Presbyterian.Hospital...New.York.Weill.Cornell.Center | < 2e-16 |
| ## facility_nameNew.York.Presbyterian.Lower.Manhattan.Hospital | < 2e-16 |
| ## facility_nameNew.York.Presbyterian.Queens | 0.732917 |
| ## facility_nameNewYork.Presbyterian.Queens | 0.539760 |
| ## facility_nameNorth.Central.Bronx.Hospital | 0.188796 |
| ## facility_nameNYU.Hospitals.Center | < 2e-16 |
| ## facility_nameQueens.Hospital.Center | 0.242399 |
| ## facility_nameRichmond.University.Medical.Center | 7.09e-12 |
| ## facility_nameSBH.Health.System | 0.331274 |
| ## facility_nameSt.Barnabas.Hospital | 0.527379 |
| ## facility_nameSt.Johns.Episcopal.Hospital.So.Shore | NA |
| ## facility_nameSt.Lukes.Roosevelt.Hospital.Center...Roosevelt.Hospital.Division | 1.33e-15 |
| ## facility_nameStaten.Island.University.Hosp.North | NA |
| ## facility_nameSUNY.Downstate.Medical.Center.at.LICH | 0.005909 |
| ## facility_nameUniversity.Hospital.of.Brooklyn | < 2e-16 |
| ## facility_nameWoodhull.Medical...Mental.Health.Center | 0.875880 |
| ## facility_nameWyckoff.Heights.Medical.Center | NA |
| ## genderM | 0.054875 |
| ## raceOther.Race | 0.009734 |
| ## raceUnknown | 0.706867 |
| ## raceWhite | 0.616094 |
| ## ethnicitySpanish.Hispanic | 0.284585 |
| ## ethnicityUnknown | 0.060789 |
| ## length_of_stay | < 2e-16 |
| ## type_of_admissionEmergency | 0.033067 |
| ## type_of_admissionNewborn | 0.005198 |
| ## type_of_admissionUrgent | < 2e-16 |
| ## apr_severity_of_illness_code | 0.299915 |
| ## apr_risk_of_mortalityMajor | < 2e-16 |
| ## apr_risk_of_mortalityMinor | < 2e-16 |
| ## apr_risk_of_mortalityModerate | < 2e-16 |
| ## apr_medical_surgical_descriptionSurgical | < 2e-16 |
| ## payment_typology_1Federal.State.Local.VA | 0.746475 |
| ## payment_typology_1Managed.Care..Unspecified | 0.003986 |
| ## payment_typology_1Medicaid | 0.048613 |
| ## payment_typology_1Medicare | 0.486763 |

```

## payment_typology_1Private.Health.Insurance 0.699206
## payment_typology_1Self.Pay 0.000455
## birth_weight < 2e-16
## emergency_department_indicatorY 0.595184
## total_costs < 2e-16
## ccscancer 0.035127
## ccscirculatory_sysytem_disease 0.582876
## ccscongenital_anomalies 0.388113
## ccsdigestive_disease 0.285902
## ccsendocrine_metabolic_disease 0.120001
## ccsgenitourinary_disease 0.085683
## ccsinfectious_disease 0.517909
## ccsinjury_poisoning 0.171438
## ccsmmental_disorder 0.255210
## ccsmusculoskeletal_disease 0.109852
## ccsnervous_system_disease 0.189247
## ccsother 0.022342
## ccsprenatal_condition 0.032846
## ccspregnancy_childbirth_complication 0.266780
## ccrespiratory_disease 0.043211
## ccsskin_disease 0.038921
##
## (Intercept)
## hospital_countyManhattan
## hospital_countyQueens *
## hospital_countyRichmond *
## facility_nameBeth.Israel.Medical.Center.Petrie.Campus ***
## facility_nameBronx.Lebanon.Hospital.Center...Concourse.Division ***
## facility_nameBrookdale.Hospital.Medical.Center
## facility_nameBrooklyn.Hospital.Center...Downtown.Campus
## facility_nameConey.Island.Hospital ***
## facility_nameElmhurst.Hospital.Center
## facility_nameFlushing.Hospital.Medical.Center
## facility_nameForest.Hills.Hospital ***
## facility_nameHarlem.Hospital.Center .
## facility_nameJacobi.Medical.Center
## facility_nameJamaica.Hospital.Medical.Center
## facility_nameKings.County.Hospital.Center
## facility_nameLenox.Hill.Hospital ***
## facility_nameLincoln.Medical...Mental.Health.Center
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division ***
## facility_nameLutheran.Medical.Center ***
## facility_nameMaimonides.Medical.Center ***
## facility_nameMetropolitan.Hospital.Center
## facility_nameMontefiore.Med.Center...Jack.D.Weiler.Hosp.of.A.Einstein.College.Div ***
## facility_nameMontefiore.Medical.Center...Henry...Lucy.Moses.Div ***
## facility_nameMontefiore.Medical.Center...North.Division ***
## facility_nameMontefiore.Medical.Center.Wakefield.Hospital ***
## facility_nameMount.Sinai.Beth.Israel ***
## facility_nameMount.Sinai.Hospital ***
## facility_nameMount.Sinai.Roosevelt *
## facility_nameMount.Sinai.West
## facility_nameNew.York.Hospital.Medical.Center...of.Queens ***
## facility_nameNew.York.Hospital.Medical.Center.of.Queens ***
## facility_nameNew.York.Methodist.Hospital ***
## facility_nameNew.York.Presbyterian.Hospital...Allen.Hospital ***
## facility_nameNew.York.Presbyterian.Hospital...Columbia.Presbyterian.Center ***
## facility_nameNew.York.Presbyterian.Hospital...New.York.Weill.Cornell.Center ***
## facility_nameNew.York.Presbyterian.Lower.Manhattan.Hospital ***
## facility_nameNew.York.Presbyterian.Queens
## facility_nameNewYork.Presbyterian.Queens
## facility_nameNorth.Central.Bronx.Hospital
## facility_nameNYU.Hospitals.Center ***
## facility_nameQueens.Hospital.Center
## facility_nameRichmond.University.Medical.Center ***
## facility_nameSBH.Health.System
## facility_nameSt.Barnabas.Hospital
## facility_nameSt.Johns.Episcopal.Hospital.So.Shore
## facility_nameSt.Lukes.Roosevelt.Hospital.Center...Roosevelt.Hospital.Division ***
## facility_nameStaten.Island.University.Hosp.North
## facility_nameSUNY.Downstate.Medical.Center.at.LICH **
## facility_nameUniversity.Hospital.of.Brooklyn ***
## facility_nameWoodhull.Medical...Mental.Health.Center
## facility_nameWyckoff.Heights.Medical.Center
## genderM .
## raceOther Race **

```

```

## raceUnknown
## raceWhite
## ethnicitySpanish.Hispanic
## ethnicityUnknown
## length_of_stay
## type_of_admissionEmergency
## type_of_admissionNewborn
## type_of_admissionUrgent
## apr_severity_of_illness_code
## apr_risk_of_mortalityMajor
## apr_risk_of_mortalityMinor
## apr_risk_of_mortalityModerate
## apr_medical_surgical_descriptionSurgical
## payment_typology_1Federal.State.Local.VA
## payment_typology_1Managed.Care..Unspecified
## payment_typology_1Medicaid
## payment_typology_1Medicare
## payment_typology_1Private.Health.Insurance
## payment_typology_1Self.Pay
## birth_weight
## emergency_department_indicatorY
## total_costs
## ccscancer
## ccscirculatory_sysytem_disease
## ccscongenital_anomalies
## ccsdigestive_disease
## ccsendocrine_metabolic_disease
## ccsgenitourinary_disease
## ccsinfectious_disease
## ccsinjury_poisoning
## ccsmmental_disorder
## ccsmusculoskeletal_disease
## ccsnervous_system_disease
## ccsother
## ccsprenatal_condition
## ccspregnancy_childbirth_complication
## ccsprespiratory_disease
## ccsskin_disease
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 28080 on 90947 degrees of freedom
## Multiple R-squared:  0.8573, Adjusted R-squared:  0.8572
## F-statistic: 6210 on 88 and 90947 DF, p-value: < 2.2e-16
## test error
pred_lm <- predict(fit_lm, discharge_data2[-trRows, -1])
## Warning in predict.lm(modelFit, newdata): prediction from a rank-deficient
## fit may be misleading
mse(y2, pred_lm)
## [1] 937604771
rmse(y2, pred_lm)
## [1] 30620.33

```

We found the test error (MSE) to be 937604771 with a lambda value of 28.03162.

RIDGE REGRESSION

Fitting a ridge regression model on the training data, with λ chosen by cross-validation. Report the test error.

```

set.seed(100)
ridge.fit <- train(x, y,
  method = "glmnet",
  tuneGrid = expand.grid(alpha = 0,
    lambda = exp(seq(-50, 50, length=100))),
  preProc = c("center", "scale"),
  trControl = ctrl1)
## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut
## = 10, : These variables have zero variances: ccsmusculoskeletal_disease
## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut
## = 19, uniqueCut = 10, : These variables have zero variances:
## facility_nameNew.York.Presbyterian.Queens
## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =
## trainInfo, : There were missing values in resampled performance measures.

```



```

ridge.ht
## glmnet
##
## 91036 samples
## 92 predictor
##
## Pre-processing: centered (92), scaled (92)
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 81932, 81933, 81933, 81933, 81932, 81933, ...
## Resampling results across tuning parameters:
##
## lambda      RMSE      Rsquared  MAE
## 1.928750e-22 28517.52 0.8548152 8931.058
## 5.296112e-22 28517.52 0.8548152 8931.058
## 1.454248e-21 28517.52 0.8548152 8931.058
## 3.993188e-21 28517.52 0.8548152 8931.058
## 1.096481e-20 28517.52 0.8548152 8931.058
## 3.010803e-20 28517.52 0.8548152 8931.058
## 8.267300e-20 28517.52 0.8548152 8931.058
## 2.270100e-19 28517.52 0.8548152 8931.058
## 6.233418e-19 28517.52 0.8548152 8931.058
## 1.711621e-18 28517.52 0.8548152 8931.058
## 4.699903e-18 28517.52 0.8548152 8931.058
## 1.290536e-17 28517.52 0.8548152 8931.058
## 3.543655e-17 28517.52 0.8548152 8931.058
## 9.730446e-17 28517.52 0.8548152 8931.058
## 2.671862e-16 28517.52 0.8548152 8931.058
## 7.336608e-16 28517.52 0.8548152 8931.058
## 2.014543e-15 28517.52 0.8548152 8931.058
## 5.531691e-15 28517.52 0.8548152 8931.058
## 1.518935e-14 28517.52 0.8548152 8931.058
## 4.170811e-14 28517.52 0.8548152 8931.058
## 1.145254e-13 28517.52 0.8548152 8931.058
## 3.144728e-13 28517.52 0.8548152 8931.058
## 8.635041e-13 28517.52 0.8548152 8931.058
## 2.371077e-12 28517.52 0.8548152 8931.058
## 6.510689e-12 28517.52 0.8548152 8931.058
## 1.787756e-11 28517.52 0.8548152 8931.058
## 4.908961e-11 28517.52 0.8548152 8931.058
## 1.347941e-10 28517.52 0.8548152 8931.058
## 3.701282e-10 28517.52 0.8548152 8931.058
## 1.016327e-09 28517.52 0.8548152 8931.058
## 2.790710e-09 28517.52 0.8548152 8931.058
## 7.662951e-09 28517.52 0.8548152 8931.058
## 2.104153e-08 28517.52 0.8548152 8931.058
## 5.777749e-08 28517.52 0.8548152 8931.058
## 1.586499e-07 28517.52 0.8548152 8931.058
## 4.356335e-07 28517.52 0.8548152 8931.058
## 1.196196e-06 28517.52 0.8548152 8931.058
## 3.284610e-06 28517.52 0.8548152 8931.058
## 9.019140e-06 28517.52 0.8548152 8931.058
## 2.476546e-05 28517.52 0.8548152 8931.058
## 6.800294e-05 28517.52 0.8548152 8931.058
## 1.867278e-04 28517.52 0.8548152 8931.058
## 5.127318e-04 28517.52 0.8548152 8931.058
## 1.407899e-03 28517.52 0.8548152 8931.058
## 3.865920e-03 28517.52 0.8548152 8931.058
## 1.061535e-02 28517.52 0.8548152 8931.058
## 2.914845e-02 28517.52 0.8548152 8931.058
## 8.003810e-02 28517.52 0.8548152 8931.058
## 2.197749e-01 28517.52 0.8548152 8931.058
## 6.034751e-01 28517.52 0.8548152 8931.058
## 1.657069e+00 28517.52 0.8548152 8931.058
## 4.550110e+00 28517.52 0.8548152 8931.058
## 1.249405e+01 28517.52 0.8548152 8931.058
## 3.430714e+01 28517.52 0.8548152 8931.058
## 9.420324e+01 28517.52 0.8548152 8931.058
## 2.586706e+02 28517.52 0.8548152 8931.058
## 7.102781e+02 28517.52 0.8548152 8931.058
## 1.950337e+03 28517.52 0.8548152 8931.058
## 5.355389e+03 28517.52 0.8548152 8931.058
## 1.470525e+04 29261.90 0.8510164 8774.302
## 4.037882e+04 32270.89 0.8368981 9083.627
## 1.108753e+05 39473.04 0.8066683 10351.515
## 3.044501e+05 50558.71 0.7706085 13473.051
## 8.359831e+05 61540.03 0.7442838 17638.888

```

```

## 2.295508e+06 68605.90 0.7303976 20520.063
## 6.303185e+06 71961.77 0.7243796 21935.011
## 1.730778e+07 73324.29 0.7220232 22518.938
## 4.752506e+07 73841.55 0.7211408 22742.225
## 1.304980e+08 74142.98 NaN 22872.730
## 3.583317e+08 74142.98 NaN 22872.730
## 9.839353e+08 74142.98 NaN 22872.730
## 2.701767e+09 74142.98 NaN 22872.730
## 7.418723e+09 74142.98 NaN 22872.730
## 2.037091e+10 74142.98 NaN 22872.730
## 5.593604e+10 74142.98 NaN 22872.730
## 1.535936e+11 74142.98 NaN 22872.730
## 4.217492e+11 74142.98 NaN 22872.730
## 1.158072e+12 74142.98 NaN 22872.730
## 3.179925e+12 74142.98 NaN 22872.730
## 8.731688e+12 74142.98 NaN 22872.730
## 2.397615e+13 74142.98 NaN 22872.730
## 6.583560e+13 74142.98 NaN 22872.730
## 1.807765e+14 74142.98 NaN 22872.730
## 4.963904e+14 74142.98 NaN 22872.730
## 1.363028e+15 74142.98 NaN 22872.730
## 3.742708e+15 74142.98 NaN 22872.730
## 1.027702e+16 74142.98 NaN 22872.730
## 2.821945e+16 74142.98 NaN 22872.730
## 7.748718e+16 74142.98 NaN 22872.730
## 2.127704e+17 74142.98 NaN 22872.730
## 5.842416e+17 74142.98 NaN 22872.730
## 1.604256e+18 74142.98 NaN 22872.730
## 4.405092e+18 74142.98 NaN 22872.730
## 1.209585e+19 74142.98 NaN 22872.730
## 3.321373e+19 74142.98 NaN 22872.730
## 9.120086e+19 74142.98 NaN 22872.730
## 2.504265e+20 74142.98 NaN 22872.730
## 6.876406e+20 74142.98 NaN 22872.730
## 1.888177e+21 74142.98 NaN 22872.730
## 5.184706e+21 74142.98 NaN 22872.730
##
## Tuning parameter 'alpha' was held constant at a value of 0
## RMSE was used to select the optimal model using the smallest value.
## The final values used for the model were alpha = 0 and lambda = 5355.389.
#lambda value
ridge.fit$bestTune
## alpha lambda
## 59 0 5355.389
#model coefficients
coef(ridge.fit$finalModel,ridge.fit$bestTune$lambda)
## 93 x 1 sparse Matrix of class "dgCMatrix"
##
## (Intercept) 19730.125339
## hospital_countyKings -401.124965
## hospital_countyManhattan 14.316032
## hospital_countyQueens 581.278826
## hospital_countyRichmond -372.020868
## facility_nameBeth.Israel.Medical.Center.Petrie.Campus 733.725487
## facility_nameBronx.Lebanon.Hospital.Center...Concourse.Division -2080.176381
## facility_nameBrookdale.Hospital.Medical.Center -654.546375
## facility_nameBrooklyn.Hospital.Center...Downtown.Campus -735.433220
## facility_nameConey.Island.Hospital -140.546209
## facility_nameElmhurst.Hospital.Center -996.484138
## facility_nameFlushing.Hospital.Medical.Center -545.512933
## facility_nameForest.Hills.Hospital 143.690693
## facility_nameHarlem.Hospital.Center -948.864755
## facility_nameJacobi.Medical.Center -1362.565113
## facility_nameJamaica.Hospital.Medical.Center -984.549466
## facility_nameKings.County.Hospital.Center -867.973533
## facility_nameLenox.Hill.Hospital 1639.869532
## facility_nameLincoln.Medical...Mental.Health.Center -1059.966460
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division 2754.386266
## facility_nameLutheran.Medical.Center 589.615420
## facility_nameMaimonides.Medical.Center 1579.636701
## facility_nameMetropolitan.Hospital.Center -729.943336
## facility_nameMontefiore.Med.Center...Jack.D.Weiler.Hosp.of.A.Einstein.College.Div
2468.095667
## facility_nameMontefiore.Medical.Center...Henry...Lucy.Moses.Div 1376.594982
## facility_nameMontefiore.Medical.Center...North.Division 1404.718677

```

```

## facility_nameMontefiore.Medical.Center.Wakefield.Hospital      800.201974
## facility_nameMount.Sinai.Beth.Israel      154.559294
## facility_nameMount.Sinai.Hospital      -344.117085
## facility_nameMount.Sinai.Roosevelt      -250.730767
## facility_nameMount.Sinai.West      -193.883334
## facility_nameNew.York.Hospital.Medical.Center...of.Queens      460.632957
## facility_nameNew.York.Hospital.Medical.Center.of.Queens      152.760090
## facility_nameNew.York.Methodist.Hospital      272.018795
## facility_nameNew.York.Presbyterian.Hospital...Allen.Hospital      665.075833
## facility_nameNew.York.Presbyterian.Hospital...Columbia.Presbyterian.Center
2510.947143
## facility_nameNew.York.Presbyterian.Hospital...New.York.Weill.Cornell.Center
1586.670338
## facility_nameNew.York.Presbyterian.Lower.Manhattan.Hospital      150.320525
## facility_nameNew.York.Presbyterian.Queens      9.411302
## facility_nameNewYork.Presbyterian.Queens      56.917918
## facility_nameNorth.Central.Bronx.Hospital      -559.019941
## facility_nameNYU.Hospitals.Center      630.786746
## facility_nameQueens.Hospital.Center      -885.154739
## facility_nameRichmond.University.Medical.Center      191.577118
## facility_nameSBH.Health.System      -235.823892
## facility_nameSt.Barnabas.Hospital      -639.418840
## facility_nameSt.Johns.Episcopal.Hospital.So.Shore      -366.435397
## facility_nameSt.Lukes.Roosevelt.Hospital.Center...Roosevelt.Hospital.Division      -545.254261
## facility_nameStaten.Island.University.Hosp.North      -662.537196
## facility_nameSUNY.Downstate.Medical.Center.at.LICH      -797.180318
## facility_nameUniversity.Hospital.of.Brooklyn      -1982.245196
## facility_nameWoodhull.Medical...Mental.Health.Center      -870.397360
## facility_nameWyckoff.Heights.Medical.Center      -632.406044
## genderM      -1.718848
## raceOther.Race      329.219469
## raceUnknown      20.114862
## raceWhite      223.887375
## ethnicitySpanish.Hispanic      30.870556
## ethnicityUnknown      -99.484525
## length_of_stay      34912.197953
## type_of_admissionEmergency      -253.098642
## type_of_admissionNewborn      231.600854
## type_of_admissionUrgent      1813.481118
## apr_severity_of_illness_code      1073.877856
## apr_risk_of_mortalityMajor      1027.961143
## apr_risk_of_mortalityMinor      -5236.365124
## apr_risk_of_mortalityModerate      -3152.331587
## apr_medical_surgical_descriptionSurgical      5343.062880
## payment_typology_1Federal.State.Local.VA      -49.638935
## payment_typology_1Managed.Care..Unspecified      -226.020868
## payment_typology_1Medicaid      -48.988506
## payment_typology_1Medicare      -73.974618
## payment_typology_1Private.Health.Insurance      -73.161229
## payment_typology_1Self.Pay      62.420121
## birth_weight      -509.087805
## emergency_department_indicatorY      83.994292
## total_costs      27082.687743
## ccscancer      76.265313
## ccscirculatory_sysytem_disease      -107.139854
## ccscongenital_anomalies      -724.251919
## ccsdigestive_disease      -228.653419
## ccsendocrine_metabolic_disease      -17.115423
## ccsgenitourinary_disease      6.234718
## ccsinfectious_disease      -407.916662
## ccsinjury_poisoning      -124.041390
## ccsmmental_disorder      -277.830011
## ccsmusculoskeletal_disease      68.442824
## ccsnervous_system_disease      -110.213547
## ccsother      286.026870
## ccsprenatal_condition      583.960114
## ccspregnancy_childbirth_complication      -12.658190
## ccspiratory_disease      182.569953
## ccsskin_disease      107.487776

```

```

#test error

```

```

pred_ridge <- predict(ridge.fit, x)

```

```

mse(y2, pred_ridge)

```

```

## [1] 9790669585

```

```

rmse(y2, pred_ridge)

```

```

## [1] 98947.81

```

We found the test error (MSE) to be 9790669585 with a lambda value of 5355.389.

LASSO MODEL

Fitting a lasso model on the training data, with λ chosen by cross-validation. Report the test error, along with the number of non-zero coefficient estimates.

```
set.seed(100)
lasso.fit <- train(x, y,
  method = "glmnet",
  tuneGrid = expand.grid(alpha = 1,
    lambda = exp(seq(-10, 10, length=100))),
  preProc = c("center", "scale"),
  trControl = ctrl1)
## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut
## = 10, : These variables have zero variances: ccsmusculoskeletal_disease
## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut
## = 19, uniqueCut = 10, : These variables have zero variances:
## facility_nameNew.York.Presbyterian.Queens
lasso.fit
## glmnet
##
## 91036 samples
## 92 predictor
##
## Pre-processing: centered (92), scaled (92)
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 81932, 81933, 81933, 81933, 81932, 81933, ...
## Resampling results across tuning parameters:
##
## lambda      RMSE      Rsquared  MAE
## 4.539993e-05 28180.84 0.8568294 9399.915
## 5.556374e-05 28180.84 0.8568294 9399.915
## 6.800294e-05 28180.84 0.8568294 9399.915
## 8.322695e-05 28180.84 0.8568294 9399.915
## 1.018592e-04 28180.84 0.8568294 9399.915
## 1.246627e-04 28180.84 0.8568294 9399.915
## 1.525713e-04 28180.84 0.8568294 9399.915
## 1.867278e-04 28180.84 0.8568294 9399.915
## 2.285311e-04 28180.84 0.8568294 9399.915
## 2.796929e-04 28180.84 0.8568294 9399.915
## 3.423086e-04 28180.84 0.8568294 9399.915
## 4.189421e-04 28180.84 0.8568294 9399.915
## 5.127318e-04 28180.84 0.8568294 9399.915
## 6.275185e-04 28180.84 0.8568294 9399.915
## 7.680028e-04 28180.84 0.8568294 9399.915
## 9.399377e-04 28180.84 0.8568294 9399.915
## 1.150364e-03 28180.84 0.8568294 9399.915
## 1.407899e-03 28180.84 0.8568294 9399.915
## 1.723090e-03 28180.84 0.8568294 9399.915
## 2.108842e-03 28180.84 0.8568294 9399.915
## 2.580955e-03 28180.84 0.8568294 9399.915
## 3.158760e-03 28180.84 0.8568294 9399.915
## 3.865920e-03 28180.84 0.8568294 9399.915
## 4.731394e-03 28180.84 0.8568294 9399.915
## 5.790624e-03 28180.84 0.8568294 9399.915
## 7.086987e-03 28180.84 0.8568294 9399.915
## 8.673571e-03 28180.84 0.8568294 9399.915
## 1.061535e-02 28180.84 0.8568294 9399.915
## 1.299183e-02 28180.84 0.8568294 9399.915
## 1.590035e-02 28180.84 0.8568294 9399.915
## 1.946001e-02 28180.84 0.8568294 9399.915
## 2.381657e-02 28180.84 0.8568294 9399.915
## 2.914845e-02 28180.84 0.8568294 9399.915
## 3.567399e-02 28180.84 0.8568294 9399.915
## 4.366043e-02 28180.84 0.8568294 9399.915
## 5.343481e-02 28180.84 0.8568294 9399.915
## 6.539740e-02 28180.84 0.8568294 9399.915
## 8.003810e-02 28180.84 0.8568294 9399.915
## 9.795645e-02 28180.84 0.8568294 9399.915
## 1.198862e-01 28180.84 0.8568294 9399.915
## 1.467255e-01 28180.84 0.8568294 9399.915
## 1.795733e-01 28180.84 0.8568294 9399.915
## 2.197749e-01 28180.84 0.8568294 9399.915
## ...
```

```

## 2.689765e-01 28180.84 0.8568294 9399.915
## 3.291930e-01 28180.84 0.8568294 9399.915
## 4.028903e-01 28180.84 0.8568294 9399.915
## 4.930865e-01 28180.84 0.8568294 9399.915
## 6.034751e-01 28180.84 0.8568294 9399.915
## 7.385767e-01 28180.84 0.8568294 9399.915
## 9.039239e-01 28180.84 0.8568294 9399.915
## 1.106288e+00 28180.84 0.8568294 9399.915
## 1.353955e+00 28180.84 0.8568294 9399.915
## 1.657069e+00 28180.84 0.8568294 9399.915
## 2.028042e+00 28180.84 0.8568294 9399.915
## 2.482065e+00 28180.84 0.8568294 9399.915
## 3.037732e+00 28180.84 0.8568294 9399.915
## 3.717797e+00 28180.84 0.8568294 9399.915
## 4.550110e+00 28180.84 0.8568294 9399.915
## 5.568756e+00 28180.84 0.8568294 9399.915
## 6.815449e+00 28180.84 0.8568294 9399.915
## 8.341242e+00 28180.84 0.8568294 9399.915
## 1.020862e+01 28180.84 0.8568294 9399.915
## 1.249405e+01 28180.84 0.8568294 9399.915
## 1.529113e+01 28180.84 0.8568294 9399.915
## 1.871439e+01 28180.84 0.8568294 9399.915
## 2.290404e+01 28180.84 0.8568294 9399.915
## 2.803162e+01 28180.84 0.8568294 9399.915
## 3.430714e+01 28180.88 0.8568286 9396.599
## 4.198757e+01 28182.54 0.8568143 9377.129
## 5.138745e+01 28184.20 0.8568005 9351.376
## 6.289170e+01 28186.43 0.8567813 9319.573
## 7.697143e+01 28189.93 0.8567500 9280.133
## 9.420324e+01 28195.58 0.8566978 9233.274
## 1.152928e+02 28204.21 0.8566167 9178.637
## 1.411037e+02 28216.10 0.8565049 9115.597
## 1.726929e+02 28233.23 0.8563418 9041.879
## 2.113542e+02 28255.57 0.8561268 8958.110
## 2.586706e+02 28277.52 0.8559215 8863.992
## 3.165799e+02 28307.90 0.8556366 8759.435
## 3.874535e+02 28348.81 0.8552522 8635.987
## 4.741938e+02 28407.55 0.8546913 8507.700
## 5.803529e+02 28499.87 0.8537979 8384.984
## 7.102781e+02 28627.82 0.8525438 8271.624
## 8.692900e+02 28780.48 0.8510418 8163.239
## 1.063900e+03 28918.49 0.8496954 8037.850
## 1.302079e+03 29065.20 0.8482861 7943.197
## 1.593578e+03 29239.59 0.8466256 7899.393
## 1.950337e+03 29408.53 0.8451000 7824.036
## 2.386965e+03 29623.12 0.8431770 7869.759
## 2.921341e+03 29814.85 0.8416657 7999.469
## 3.575349e+03 29994.54 0.8405469 8095.567
## 4.375773e+03 30186.35 0.8396859 8112.916
## 5.355389e+03 30442.71 0.8386834 8120.993
## 6.554314e+03 30815.57 0.8371866 8136.782
## 8.021647e+03 31353.47 0.8349369 8205.437
## 9.817475e+03 31919.18 0.8343169 8295.444
## 1.201534e+04 32688.93 0.8342619 8454.966
## 1.470525e+04 33811.25 0.8341770 8722.504
## 1.799735e+04 35428.69 0.8340378 9242.582
## 2.202647e+04 37725.97 0.8337939 10041.835
##
## Tuning parameter 'alpha' was held constant at a value of 1
## RMSE was used to select the optimal model using the smallest value.
## The final values used for the model were alpha = 1 and lambda = 28.03162.
#lambda value
lasso.fit$bestTune
## alpha lambda
## 67 1 28.03162
#model coefficients
coef(lasso.fit$finalModel,lasso.fit$bestTune$lambda)
## 93 x 1 sparse Matrix of class "dgCMatrix"
##
## (Intercept) 1
## hospital_countyKings .
## hospital_countyManhattan .
## hospital_countyQueens .
## hospital_countyRichmond .
## facility_nameBeth.Israel.Medical.Center.Petrie.Campus 1253.296728
## facility_nameBronx.Lebanon.Hospital.Center.Concourse.Division -1927.048841

```

| | |
|--|--------------|
| ## facility_nameBronx.Education.Hospital.Center...Concourse.Division | -127.376071 |
| ## facility_nameBrookdale.Hospital.Medical.Center | -410.688177 |
| ## facility_nameBrooklyn.Hospital.Center...Downtown.Campus | -539.361660 |
| ## facility_nameConey.Island.Hospital | . |
| ## facility_nameElmhurst.Hospital.Center | -297.762345 |
| ## facility_nameFlushing.Hospital.Medical.Center | 47.869940 |
| ## facility_nameForest.Hills.Hospital | 734.885566 |
| ## facility_nameHarlem.Hospital.Center | -740.452319 |
| ## facility_nameJacobi.Medical.Center | -983.014566 |
| ## facility_nameJamaica.Hospital.Medical.Center | -487.323881 |
| ## facility_nameKings.County.Hospital.Center | -642.017675 |
| ## facility_nameLenox.Hill.Hospital | 2347.193864 |
| ## facility_nameLincoln.Medical...Mental.Health.Center | -774.653451 |
| ## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division | 3959.737628 |
| ## facility_nameLutheran.Medical.Center | 1040.284929 |
| ## facility_nameMaimonides.Medical.Center | 2204.539822 |
| ## facility_nameMetropolitan.Hospital.Center | -439.919462 |
| ## facility_nameMontefiore.Med.Center...Jack.D.Weiler.Hosp.of.A.Einstein.College.Div | 3087.361968 |
| ## facility_nameMontefiore.Medical.Center...Henry...Lucy.Moses.Div | 1533.327873 |
| ## facility_nameMontefiore.Medical.Center...North.Division | 1838.022457 |
| ## facility_nameMontefiore.Medical.Center.Wakefield.Hospital | 1082.467888 |
| ## facility_nameMount.Sinai.Beth.Israel | 250.822670 |
| ## facility_nameMount.Sinai.Hospital | 458.649521 |
| ## facility_nameMount.Sinai.Roosevelt | -66.561253 |
| ## facility_nameMount.Sinai.West | -175.963487 |
| ## facility_nameNew.York.Hospital.Medical.Center...of.Queens | 1236.791038 |
| ## facility_nameNew.York.Hospital.Medical.Center.of.Queens | 399.744436 |
| ## facility_nameNew.York.Methodist.Hospital | 743.899247 |
| ## facility_nameNew.York.Presbyterian.Hospital...Allen.Hospital | 1032.453456 |
| ## facility_nameNew.York.Presbyterian.Hospital...Columbia.Presbyterian.Center | 3256.294508 |
| ## facility_nameNew.York.Presbyterian.Hospital...New.York.Weill.Cornell.Center | 2372.593259 |
| ## facility_nameNew.York.Presbyterian.Lower.Manhattan.Hospital | 546.092537 |
| ## facility_nameNew.York.Presbyterian.Queens | . |
| ## facility_nameNewYork.Presbyterian.Queens | 8.151311 |
| ## facility_nameNorth.Central.Bronx.Hospital | -279.255296 |
| ## facility_nameNYU.Hospitals.Center | 1454.699943 |
| ## facility_nameQueens.Hospital.Center | -389.396505 |
| ## facility_nameRichmond.University.Medical.Center | 371.985616 |
| ## facility_nameSBH.Health.System | -191.129113 |
| ## facility_nameSt.Barnabas.Hospital | -502.407235 |
| ## facility_nameSt.Johns.Episcopal.Hospital.So.Shore | -57.691242 |
| ## facility_nameSt.Lukes.Roosevelt.Hospital.Center...Roosevelt.Hospital.Division | 187.495235 |
| ## facility_nameStaten.Island.University.Hosp.North | -450.805985 |
| ## facility_nameSUNY.Downstate.Medical.Center.at.LICH | -688.120908 |
| ## facility_nameUniversity.Hospital.of.Brooklyn | -1868.694266 |
| ## facility_nameWoodhull.Medical...Mental.Health.Center | -658.778545 |
| ## facility_nameWyckoff.Heights.Medical.Center | -537.034992 |
| ## genderM | -134.088218 |
| ## raceOther.Race | 294.472697 |
| ## raceUnknown | . |
| ## raceWhite | 61.921620 |
| ## ethnicitySpanish.Hispanic | 6.477588 |
| ## ethnicityUnknown | 73.245662 |
| ## length_of_stay | 41874.636145 |
| ## type_of_admissionEmergency | . |
| ## type_of_admissionNewborn | 179.913215 |
| ## type_of_admissionUrgent | 1911.021823 |
| ## apr_severity_of_illness_code | -3.692325 |
| ## apr_risk_of_mortalityMajor | -2373.660323 |
| ## apr_risk_of_mortalityMinor | -9126.047204 |
| ## apr_risk_of_mortalityModerate | -7322.214494 |
| ## apr_medical_surgical_descriptionSurgical | 5348.276370 |
| ## payment_typology_1Federal.State.Local.VA | -7.311927 |
| ## payment_typology_1Managed.Care..Unspecified | -233.257406 |
| ## payment_typology_1Medicaid | 105.428357 |
| ## payment_typology_1Medicare | -33.747856 |
| ## payment_typology_1Private.Health.Insurance | -31.172982 |
| ## payment_typology_1Self.Pay | 184.192214 |
| ## birth_weight | 1123.571828 |
| ## emergency_department_indicatorY | 52.423955 |
| ## total_costs | 24814.138366 |
| ## ccscancer | 29.995993 |
| ## ccscirculatory_sysytem_disease | -62.229681 |


```
## ccscongenital_anomalies -909.892358
## ccsdigestive_disease -264.471243
## ccsendocrine_metabolic_disease -7.301272
## ccsgenitourinary_disease .
## ccsinfectious_disease -604.070166
## ccsinjury_poisoning -98.040208
## ccsmmental_disorder -361.338041
## ccsmusculoskeletal_disease 34.939721
## ccsnervous_system_disease -119.708990
## ccsother 218.214467
## ccsprenatal_condition 406.451419
## ccspregnancy_childbirth_complication -9.067202
## ccrespiratory_disease 90.515491
## ccsskin_disease 48.524308
#test error
pred_lasso <- predict(lasso.fit, newdata = x2)
mse(y2, pred_lasso)
## [1] 937116653
rmse(y2, pred_lasso)
## [1] 30612.36
```

We found the test error (MSE) to be 937116653 with a lambda value of 28.03162.

PCR MODEL

Fitting a principle component regression model on the training data, with M chosen by cross-validation.

```
set.seed(100)
pcr.fit <- train(x, y,
  method = "pcr",
  tuneGrid = data.frame(ncomp = 1:92),
  trControl = ctrl1,
  preProc = c("center", "scale"))
## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut
## = 10, : These variables have zero variances: ccsmusculoskeletal_disease
## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut
## = 19, uniqueCut = 10, : These variables have zero variances:
## facility_nameNew.York.Presbyterian.Queens
pcr.fit
## Principal Component Analysis
##
## 91036 samples
## 92 predictor
##
## Pre-processing: centered (92), scaled (92)
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 81932, 81933, 81933, 81933, 81932, 81933, ...
## Resampling results across tuning parameters:
##
## ncomp RMSE Rsquared MAE
## 1 6.095158e+04 0.3260462 1.718126e+04
## 2 5.431094e+04 0.4647305 2.556397e+04
## 3 4.427509e+04 0.6447749 1.650835e+04
## 4 4.422823e+04 0.6455109 1.655123e+04
## 5 4.421291e+04 0.6457462 1.640458e+04
## 6 4.415976e+04 0.6465798 1.619183e+04
## 7 4.413171e+04 0.6470296 1.616590e+04
## 8 4.330294e+04 0.6604009 1.660777e+04
## 9 4.309022e+04 0.6637221 1.672886e+04
## 10 4.305787e+04 0.6642161 1.685328e+04
## 11 4.293798e+04 0.6660658 1.748823e+04
## 12 4.271250e+04 0.6695164 1.800796e+04
## 13 3.975373e+04 0.7132381 1.806576e+04
## 14 3.970237e+04 0.7139577 1.800994e+04
## 15 3.916038e+04 0.7215704 1.716327e+04
## 16 3.915452e+04 0.7216549 1.716026e+04
## 17 3.915103e+04 0.7217101 1.711614e+04
## 18 3.915333e+04 0.7216863 1.708905e+04
## 19 3.915740e+04 0.7216364 1.708915e+04
## 20 3.906941e+04 0.7228829 1.699409e+04
## 21 3.898997e+04 0.7240505 1.674684e+04
## 22 3.898536e+04 0.7241114 1.670462e+04
## 23 3.897689e+04 0.7242399 1.663296e+04
## 24 3.894187e+04 0.7247529 1.651064e+04
```

```

## 25 3.889678e+04 0.7253547 1.649983e+04
## 26 3.888213e+04 0.7255244 1.646569e+04
## 27 3.882963e+04 0.7262787 1.639411e+04
## 28 3.878487e+04 0.7269397 1.635929e+04
## 29 3.877435e+04 0.7270884 1.633722e+04
## 30 3.871588e+04 0.7278979 1.627342e+04
## 31 3.870614e+04 0.7280348 1.625892e+04
## 32 3.869395e+04 0.7282030 1.625618e+04
## 33 3.867536e+04 0.7284678 1.625494e+04
## 34 3.866840e+04 0.7285718 1.625347e+04
## 35 3.866257e+04 0.7286577 1.625147e+04
## 36 3.865402e+04 0.7287767 1.626248e+04
## 37 3.863901e+04 0.7289944 1.627351e+04
## 38 3.863495e+04 0.7290487 1.626760e+04
## 39 3.863292e+04 0.7291179 1.626990e+04
## 40 3.860390e+04 0.7295206 1.629274e+04
## 41 3.857182e+04 0.7299785 1.631054e+04
## 42 3.856385e+04 0.7300995 1.632346e+04
## 43 3.853652e+04 0.7304639 1.632239e+04
## 44 3.853217e+04 0.7305267 1.632789e+04
## 45 3.853272e+04 0.7305188 1.633049e+04
## 46 3.852815e+04 0.7305847 1.632453e+04
## 47 3.852849e+04 0.7305853 1.631559e+04
## 48 3.852420e+04 0.7306540 1.630240e+04
## 49 3.850975e+04 0.7308541 1.628237e+04
## 50 3.850098e+04 0.7309789 1.626616e+04
## 51 3.850911e+04 0.7308661 1.624474e+04
## 52 3.850913e+04 0.7308654 1.624486e+04
## 53 3.851270e+04 0.7308132 1.624389e+04
## 54 3.851134e+04 0.7308374 1.624317e+04
## 55 3.848917e+04 0.7311835 1.623221e+04
## 56 3.846841e+04 0.7314780 1.623198e+04
## 57 3.845664e+04 0.7316310 1.623700e+04
## 58 3.845131e+04 0.7317078 1.622923e+04
## 59 3.843864e+04 0.7318992 1.622510e+04
## 60 3.843459e+04 0.7319443 1.622391e+04
## 61 3.830779e+04 0.7336342 1.610522e+04
## 62 3.827997e+04 0.7340375 1.607777e+04
## 63 3.825540e+04 0.7343400 1.599482e+04
## 64 3.820822e+04 0.7349760 1.595260e+04
## 65 3.817187e+04 0.7354897 1.591057e+04
## 66 3.814377e+04 0.7358114 1.590084e+04
## 67 3.804295e+04 0.7372287 1.585740e+04
## 68 3.800288e+04 0.7377297 1.581199e+04
## 69 3.797749e+04 0.7380833 1.581913e+04
## 70 3.777078e+04 0.7404980 1.622695e+04
## 71 3.707245e+04 0.7504823 1.753329e+04
## 72 3.671118e+04 0.7549202 1.756730e+04
## 73 3.606853e+04 0.7640209 1.758294e+04
## 74 3.509466e+04 0.7756369 1.717807e+04
## 75 3.284542e+04 0.8026516 1.516267e+04
## 76 2.891091e+04 0.8494121 9.652062e+03
## 77 2.880699e+04 0.8505486 9.390927e+03
## 78 2.874134e+04 0.8511500 9.391043e+03
## 79 2.855866e+04 0.8531654 9.343040e+03
## 80 2.855401e+04 0.8532185 9.340143e+03
## 81 2.855180e+04 0.8532359 9.343469e+03
## 82 2.852913e+04 0.8534676 9.334426e+03
## 83 2.844743e+04 0.8541889 9.349442e+03
## 84 2.833575e+04 0.8552646 9.467717e+03
## 85 2.820369e+04 0.8565860 9.516266e+03
## 86 2.819868e+04 0.8566254 9.523623e+03
## 87 2.817368e+04 0.8568859 9.541537e+03
## 88 1.289959e+12 0.7697503 1.352022e+10
## 89 1.236455e+12 0.6827486 1.295944e+10
## 90 4.330026e+12 0.6827153 4.538354e+10
## 91 4.456623e+12 0.6826888 4.671041e+10
## 92 5.172463e+14 0.6826146 5.421028e+12
##
## RMSE was used to select the optimal model using the smallest value.
## The final value used for the model was ncomp = 87.
#M value
pcr.fit$bestTune
## ncomp
## 87 87

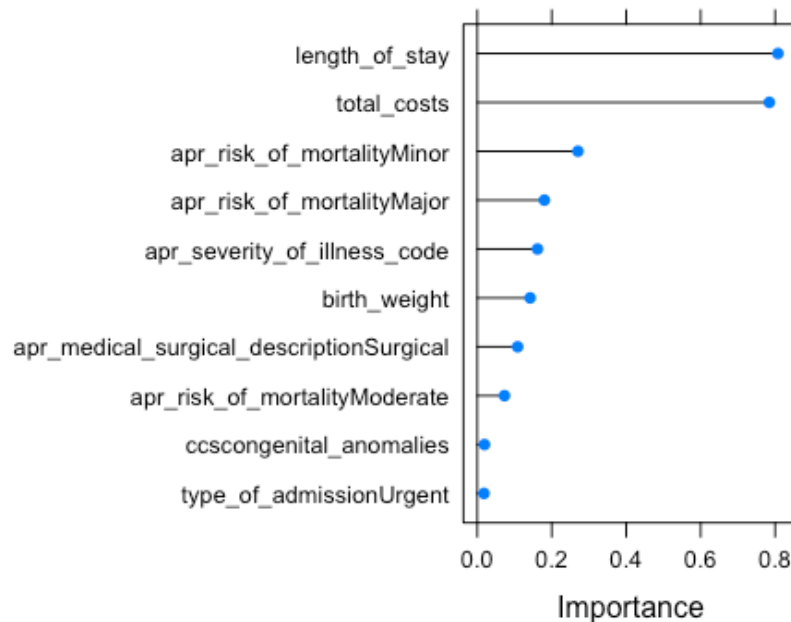
```

```

#test error
pred_pcr <- predict(pcr.fit, x2, ncomp = 87)
mse(y2, pred_pcr)
## [1] 937635353
rmse(y2, pred_pcr)
## [1] 30620.83
summary(pcr.fit)
## Data: X dimension: 91036 92
## Y dimension: 91036 1
## Fit method: svdpc
## Number of components considered: 87
## TRAINING: % variance explained
##      1 comps 2 comps 3 comps 4 comps 5 comps 6 comps 7 comps
## X      4.665  8.267 11.64 14.34 16.67 18.88 20.83
## .outcome 32.534 46.443 64.47 64.54 64.57 64.65 64.70
##      8 comps 9 comps 10 comps 11 comps 12 comps 13 comps
## X      22.57 23.98 25.35 26.66 27.97 29.24
## .outcome 66.04 66.37 66.42 66.61 66.96 71.44
##     14 comps 15 comps 16 comps 17 comps 18 comps 19 comps
## X      30.47 31.68 32.88 34.05 35.21 36.37
## .outcome 71.51 72.29 72.29 72.30 72.31 72.31
##     20 comps 21 comps 22 comps 23 comps 24 comps 25 comps
## X      37.53 38.67 39.81 40.95 42.09 43.22
## .outcome 72.45 72.59 72.59 72.60 72.64 72.69
##     26 comps 27 comps 28 comps 29 comps 30 comps 31 comps
## X      44.35 45.47 46.60 47.72 48.84 49.95
## .outcome 72.70 72.81 72.85 72.85 72.96 72.97
##     32 comps 33 comps 34 comps 35 comps 36 comps 37 comps
## X      51.07 52.18 53.29 54.40 55.51 56.62
## .outcome 72.98 73.01 73.01 73.02 73.03 73.06
##     38 comps 39 comps 40 comps 41 comps 42 comps 43 comps
## X      57.72 58.83 59.93 61.03 62.13 63.23
## .outcome 73.06 73.06 73.15 73.17 73.18 73.21
##     44 comps 45 comps 46 comps 47 comps 48 comps 49 comps
## X      64.32 65.42 66.51 67.60 68.69 69.79
## .outcome 73.23 73.23 73.23 73.23 73.24 73.26
##     50 comps 51 comps 52 comps 53 comps 54 comps 55 comps
## X      70.87 71.96 73.05 74.14 75.22 76.30
## .outcome 73.28 73.29 73.29 73.29 73.29 73.33
##     56 comps 57 comps 58 comps 59 comps 60 comps 61 comps
## X      77.39 78.47 79.55 80.63 81.7 82.77
## .outcome 73.35 73.35 73.39 73.39 73.4 73.53
##     62 comps 63 comps 64 comps 65 comps 66 comps 67 comps
## X      83.84 84.91 85.96 87.01 88.05 89.08
## .outcome 73.64 73.65 73.70 73.80 73.80 73.97
##     68 comps 69 comps 70 comps 71 comps 72 comps 73 comps
## X      90.1 91.08 92.05 92.97 93.88 94.73
## .outcome 74.0 74.06 74.08 75.34 75.51 76.88
##     74 comps 75 comps 76 comps 77 comps 78 comps 79 comps
## X      95.57 96.29 96.98 97.64 98.29 98.80
## .outcome 77.24 79.75 84.97 85.05 85.05 85.29
##     80 comps 81 comps 82 comps 83 comps 84 comps 85 comps
## X      99.08 99.32 99.56 99.78 99.88 99.94
## .outcome 85.30 85.30 85.33 85.33 85.48 85.70
##     86 comps 87 comps
## X      99.97 100.00
## .outcome 85.70 85.73
var_imp = varImp(pcr.fit, scale=FALSE)
var_imp
## loess r-squared variable importance
##
## only 20 most important variables shown (out of 92)
##
##
## Overall
## length_of_stay 0.8076274
## total_costs 0.7845670
## apr_risk_of_mortalityMinor 0.2704475
## apr_risk_of_mortalityMajor 0.1802378
## apr_severity_of_illness_code 0.1618311
## birth_weight 0.1420151
## apr_medical_surgical_descriptionSurgical 0.1084894
## apr_risk_of_mortalityModerate 0.0731018
## ccscongenital_anomalies 0.0193159
## type_of_admissionUrgent 0.0180686
## ccspерinatal_condition 0.0099542
## facility_nameNew York Presbyterian Hospital - Columbia Presbyterian Center 0.0085628

```

```
## facility_nameNew.York.Presbyterian.Hospital...Columbia.Presbyterian.Center 0.0009026
## type_of_admissionNewborn 0.0073561
## facility_nameMontefiore.Medical.Center...Henry...Lucy.Moses.Div 0.0034954
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division 0.0032407
## facility_nameMontefiore.Med.Center...Jack.D.Weiler.Hosp.of.A.Einstein.College.Div
0.0029808
## hospital_countyManhattan 0.0015741
## hospital_countyKings 0.0014053
## facility_nameNew.York.Presbyterian.Hospital...New.York.Weill.Cornell.Center 0.0009412
## type_of_admissionEmergency 0.0008545
#Figure 4: Importance of each variable
plot(var_imp, top = 10)
```



We found the test error to be 937635353 with an M value of 87 selected by cross-validation.

GAM MODEL

Fitting a generalized additive model (GAM) using all the predictors.

```
set.seed(100)
```

```
gam.fit <- train(x, y,
  method = "gam",
  tuneGrid = data.frame(method = "GCV.Cp", select = c(TRUE,FALSE)),
  trControl = ctrl1)
```

```
gam.fit$bestTune
## select method
## 1 FALSE GCV.Cp
gam.fit$finalModel
##
## Family: gaussian
## Link function: identity
##
## Formula:
## .outcome ~ hospital_countyKings + hospital_countyManhattan +
## hospital_countyQueens +
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division +
## facility_nameMaimonides.Medical.Center + facility_nameMount.Sinai.Hospital +
## genderM + raceOther.Race + raceWhite + ethnicitySpanish.Hispanic +
## payment_typology_1Medicaid + payment_typology_1Private.Health.Insurance +
## apr_severity_of_illness_code + s(birth_weight) + s(length_of_stay) +
## s(total_costs)
##
## Estimated degrees of freedom:
## 8.90 8.97 8.96 total = 40.82
##
## GCV score: 820127821
pred_gam <- predict(gam.fit, x2)
```

```

mse(y2, pred_gam)
## [1] 969194746
rmse(y2, pred_gam)
## [1] 31131.89
summary(gam.fit)
##
## Family: gaussian
## Link function: identity
##
## Formula:
## .outcome ~ hospital_countyKings + hospital_countyManhattan +
##   hospital_countyQueens +
##   facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division +
##   facility_nameMaimonides.Medical.Center + facility_nameMount.Sinai.Hospital +
##   genderM + raceOther.Race + raceWhite + ethnicitySpanish.Hispanic +
##   payment_typology_1Medicaid + payment_typology_1Private.Health.Insurance +
##   apr_severity_of_illness_code + s(birth_weight) + s(length_of_stay) +
##   s(total_costs)
##
## Parametric coefficients:
##
##               Estimate
## (Intercept)      12214.95
## hospital_countyKings      -3179.65
## hospital_countyManhattan      4082.29
## hospital_countyQueens      -425.77
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division 16773.17
## facility_nameMaimonides.Medical.Center      9901.53
## facility_nameMount.Sinai.Hospital      -5848.08
## genderM      70.95
## raceOther.Race      3145.21
## raceWhite      2503.48
## ethnicitySpanish.Hispanic      -812.46
## payment_typology_1Medicaid      -1661.56
## payment_typology_1Private.Health.Insurance      -100.30
## apr_severity_of_illness_code      3272.90
##
##               Std. Error
## (Intercept)      458.98
## hospital_countyKings      322.24
## hospital_countyManhattan      297.23
## hospital_countyQueens      338.33
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division 482.32
## facility_nameMaimonides.Medical.Center      435.95
## facility_nameMount.Sinai.Hospital      432.61
## genderM      191.74
## raceOther.Race      267.76
## raceWhite      293.54
## ethnicitySpanish.Hispanic      266.04
## payment_typology_1Medicaid      289.68
## payment_typology_1Private.Health.Insurance      308.59
## apr_severity_of_illness_code      176.75
##
##               t value
## (Intercept)      26.613
## hospital_countyKings      -9.867
## hospital_countyManhattan      13.734
## hospital_countyQueens      -1.258
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division 34.776
## facility_nameMaimonides.Medical.Center      22.712
## facility_nameMount.Sinai.Hospital      -13.518
## genderM      0.370
## raceOther.Race      11.746
## raceWhite      8.529
## ethnicitySpanish.Hispanic      -3.054
## payment_typology_1Medicaid      -5.736
## payment_typology_1Private.Health.Insurance      -0.325
## apr_severity_of_illness_code      18.517
##
##               Pr(>|t|)
## (Intercept)      < 2e-16
## hospital_countyKings      < 2e-16
## hospital_countyManhattan      < 2e-16
## hospital_countyQueens      0.20824
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division < 2e-16
## facility_nameMaimonides.Medical.Center      < 2e-16
## facility_nameMount.Sinai.Hospital      < 2e-16
## genderM      0.71138
## raceOther.Race      < 2e-16
## raceWhite      < 2e-16

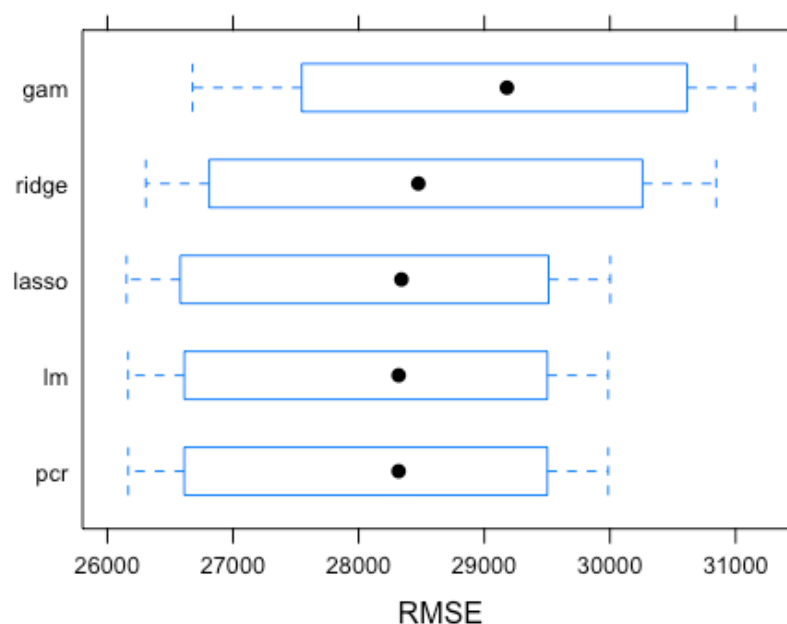
```

```
## raceWhite < 2e-16 ***
## ethnicitySpanish.Hispanic 0.00226
## payment_typology_1Medicaid 9.73e-09
## payment_typology_1Private.Health.Insurance 0.74517
## apr_severity_of_illness_code < 2e-16 ***
##
## (Intercept) ***
## hospital_countyKings ***
## hospital_countyManhattan ***
## hospital_countyQueens
## facility_nameLong.Island.Jewish.Schneiders.Children.s.Hospital.Division ***
## facility_nameMaimonides.Medical.Center ***
## facility_nameMount.Sinai.Hospital ***
## genderM
## raceOther.Race ***
## raceWhite ***
## ethnicitySpanish.Hispanic **
## payment_typology_1Medicaid ***
## payment_typology_1Private.Health.Insurance
## apr_severity_of_illness_code ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Approximate significance of smooth terms:
##          edf Ref.df    F p-value
## s(birth_weight) 8.895 8.993 107.9 <2e-16 ***
## s(length_of_stay) 8.966 8.999 3143.9 <2e-16 ***
## s(total_costs) 8.958 8.999 2110.4 <2e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## R-sq.(adj) = 0.852 Deviance explained = 85.2%
## GCV = 8.2013e+08 Scale est. = 8.1976e+08 n = 91036
```

Choosing best model to predict total healthcare charges

```
resamp <- resamples(list(lm = fit_lm,
                        lasso = lasso.fit,
                        pcr = pcr.fit,
                        gam = gam.fit,
                        ridge = ridge.fit))
```

#Figure 3: Boxplot of all 3 models
bwplot(resamp, metric = "RMSE")



```
summary(resamp)
##
## Call:
## summary.resamples(object = resamp)
##
```



```
##
## Models: lm, lasso, pcr, gam, ridge
## Number of resamples: 10
##
## MAE
##      Min. 1st Qu.  Median    Mean 3rd Qu.   Max. NA's
## lm   9203.205 9392.192 9569.649 9541.894 9721.208 9814.831    0
## lasso 9042.496 9249.446 9425.081 9399.915 9593.689 9674.869    0
## pcr   9203.646 9392.051 9566.931 9541.537 9721.594 9815.186    0
## gam   8140.379 8344.797 8477.576 8485.779 8696.123 8825.095    0
## ridge 8601.740 8712.862 8985.624 8931.058 9146.153 9224.492    0
##
## RMSE
##      Min. 1st Qu.  Median    Mean 3rd Qu.   Max. NA's
## lm  26165.24 26844.17 28318.51 28174.24 29429.14 29986.34    0
## lasso 26152.81 26816.58 28340.35 28180.84 29441.95 30002.69    0
## pcr  26166.42 26842.52 28318.00 28173.68 29428.94 29986.34    0
## gam  26678.34 27548.32 29180.06 29076.52 30604.48 31150.71    0
## ridge 26305.89 26931.26 28475.02 28517.52 30140.80 30845.07    0
##
## Rsquared
##      Min. 1st Qu.  Median    Mean 3rd Qu.   Max. NA's
## lm   0.8378441 0.8507103 0.8551594 0.8568802 0.8664776 0.8734834    0
## lasso 0.8379075 0.8508073 0.8548708 0.8568294 0.8664416 0.8738037    0
## pcr   0.8379046 0.8507118 0.8551640 0.8568859 0.8664763 0.8734683    0
## gam   0.8280900 0.8378257 0.8409091 0.8475277 0.8575302 0.8755479    0
## ridge 0.8341629 0.8488328 0.8536992 0.8548152 0.8631452 0.8731384    0
```

Using final PCR model to predict test data

#Using PCR model to predict total charges of test dataset

```
predictions <- pcr.fit %>% predict(x2)
predictions
##      [1] 4.633127e+05 -7.570316e+03 -2.393732e+03 7.535410e+05
##      [5] -1.770213e+03 -5.561952e+02 -4.833818e+03 -1.714709e+03
##      [9] -8.344037e+03 2.573071e+04 3.439659e+04 1.620086e+04
##     [13] 5.841887e+02 -7.429872e+03 -7.587956e+03 -1.876165e+03
##     [17] 3.313194e+04 -8.781163e+03 -1.023382e+04 -5.019248e+02
##     [21] -6.253822e+03 -3.913070e+03 -1.255189e+03 -7.534125e+03
##     [25] -2.350541e+03 -1.317053e+03 -7.511359e+03 -9.017659e+03
##     [29] -7.832474e+03 3.412954e+04 -1.299241e+03 -6.681375e+03
##     [33] -2.557690e+03 2.103419e+05 2.504750e+04 -5.460242e+03
##     [37] -9.269470e+03 -7.590772e+03 -7.559608e+03 -2.504155e+03
##     [41] -7.831273e+03 -7.994339e+03 -8.982602e+03 -4.035030e+02
##     [45] 1.047228e+04 -7.147794e+03 -3.175738e+03 5.897357e+05
##     [49] 3.797913e+04 -7.097731e+03 4.033418e+02 -5.789967e+02
##     [53] 3.065472e+03 2.350948e+04 -6.691145e+03 -9.215994e+03
##     [57] -7.612463e+03 -8.011695e+03 -8.004706e+03 -1.388087e+03
##     [61] 3.104376e+02 -7.522503e+03 -7.611283e+03 -7.653798e+03
##     [65] 8.232019e+03 -8.953482e+03 -6.942254e+02 -6.781795e+03
##     [69] -9.689679e+03 -5.119079e+03 -2.751402e+03 -8.055535e+03
##     [73] 2.726680e+05 -1.058417e+01 -7.588233e+03 5.310720e+05
##     [77] -2.944712e+03 -7.436572e+03 -7.686808e+03 3.246535e+04
##     [81] -6.907040e+03 -8.948319e+03 3.343754e+03 1.217630e+04
##     [85] -7.956647e+03 -6.167321e+03 -5.853975e+02 -8.642377e+03
##     [89] -7.939350e+03 -5.173218e+02 -8.853791e+03 -8.671671e+03
##     [93] -6.702767e+03 -7.869661e+03 -9.905493e+03 3.456640e+02
##     [97] 4.063647e+04 2.323053e+03 -1.035766e+04 -1.085120e+04
##    [101] -7.839622e+03 -6.420587e+03 -7.387715e+02 -9.336847e+03
##    [105] -7.795388e+03 1.008483e+03 1.613190e+02 -1.306520e+03
##    [109] -1.976685e+04 -7.814593e+03 -2.340187e+03 1.483180e+05
##    [113] -8.069477e+03 1.268531e+02 -2.029448e+03 -8.810511e+03
##    [117] -1.859521e+03 -1.269197e+02 1.052741e+03 -1.234682e+03
##    [121] -3.287074e+03 4.292225e+02 -6.693481e+02 -7.820994e+03
##    [125] -7.764221e+03 6.826962e+03 -7.168126e+03 4.907311e+03
##    [129] -3.989061e+03 -6.371337e+03 -7.825523e+03 1.554933e+03
##    [133] -1.067895e+03 -7.050611e+03 -8.241894e+03 -6.753520e+03
##    [137] -7.698424e+03 1.184203e+05 -6.965508e+03 -5.479087e+03
##    [141] -5.895536e+03 -9.074106e+03 -5.737364e+03 -7.834237e+03
##    [145] -7.304389e+03 -7.488101e+03 -9.306061e+03 -7.916539e+03
##    [149] -7.981661e+03 -8.847588e+03 -1.526014e+04 8.515110e+01
##    [153] -9.282713e+03 -4.312290e+03 2.302001e+05 -7.380584e+03
##    [157] -1.303950e+04 6.570647e+02 -7.743619e+03 -1.257276e+04
##    [161] -3.696292e+03 -2.238736e+03 1.849179e+03 3.226661e+05
##    [165] -4.903228e+03 -6.934734e+03 1.415262e+04 -8.328719e+03
##    [169] 8.888888e+03 8.888888e+03 8.888888e+03 8.888888e+03
```

[109] -8.089809e+03 -9.003103e+03 -9.935089e+03 -9.079014e+03
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[201] -6.232496e+03 -6.287087e+03 -3.843228e+03 -8.181771e+03
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[477] -4.748353e+03 -5.318625e+03 -3.523040e+03 1.567094e+04
[481] 1.011943e+04 6.687016e+02 -8.344953e+03 1.382126e+03
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[517] -6.949384e+03 -6.362392e+03 -5.774296e+03 -7.163222e+03
[521] -6.479581e+03 1.786290e+03 -6.250098e+03 -5.083810e+03
[525] -5.506906e+03 4.831635e+04 7.594701e+03 -1.677722e+03
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[565] -4.259810e+03 8.528325e+03 9.760873e+03 -6.368466e+03
[569] -6.124024e+03 1.994827e+03 -5.917571e+03 -4.441783e+03
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[581] 1.143033e+03 -4.608009e+03 5.451118e+02 -7.071014e+03
[585] 1.023979e+04 8.158737e+03 -4.497056e+03 -5.537108e+03
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[593] -5.916184e+03 -6.432735e+03 3.777583e+04 9.128465e+02
[597] 1.328526e+03 1.870901e+04 -5.323194e+03 3.373426e+02
[601] 1.358018e+04 -6.099651e+03 2.177751e+04 1.562991e+04
[605] -6.687420e+03 -6.988776e+03 -6.070302e+03 2.554877e+02
[609] 5.249540e+04 5.271483e+04 1.096075e+05 8.490950e+04
[613] 1.611254e+04 3.348901e+04 2.453245e+04 1.401517e+04
[617] 1.985189e+04 1.522320e+04 1.463442e+04 2.000128e+04
[621] 2.070701e+04 4.436863e+05 2.068612e+04 5.844612e+04
[625] 1.753777e+04 2.074717e+04 1.455615e+04 4.175402e+04
[629] 1.432753e+04 1.566026e+04 3.243058e+04 2.012512e+04
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[733] 2.062572e+04 1.696183e+04 2.088443e+04 1.452738e+04
[737] 1.376595e+04 1.525918e+04 2.569366e+04 2.548582e+04
[741] 1.596127e+04 1.549128e+04 1.459593e+04 1.601850e+04
[745] 3.868303e+04 1.350961e+04 1.366723e+04 1.839004e+04
[749] 2.601421e+04 1.599728e+04 2.842922e+04 1.541071e+04
[753] 1.352259e+04 1.375263e+04 1.458282e+04 2.012472e+04
[757] 1.517671e+04 1.480938e+04 1.633135e+04 1.053856e+06
[761] 3.494241e+04 1.400834e+04 1.400838e+04 2.022127e+04
[765] 1.093639e+05 2.035662e+04 1.673637e+04 1.961940e+05
[769] 2.206932e+04 1.241534e+05 1.455780e+04 1.551484e+04

[773] 2.170771e+04 1.477789e+04 1.403392e+04 5.339599e+04
[777] 2.562632e+04 5.696469e+04 1.502199e+04 2.209986e+04
[781] 1.457830e+04 1.370691e+04 1.562658e+04 2.295827e+04
[785] 1.751708e+04 2.043724e+04 3.956172e+04 1.442712e+04
[789] 1.509435e+04 2.268625e+04 1.503444e+04 1.459786e+04
[793] 1.759491e+04 1.291275e+05 4.694277e+04 1.239749e+05
[797] 1.588555e+04 2.170521e+04 2.127336e+04 1.821467e+04
[801] 2.070660e+04 1.608960e+04 1.333302e+04 4.082263e+04
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[5889] 5.574021e+03 5.125368e+03 9.801331e+03 1.330985e+04
[5893] 1.168538e+04 4.650782e+03 5.583662e+03 5.085903e+03
[5897] 5.136981e+03 -3.644775e+02 1.026734e+04 3.868879e+03

| | | | | | |
|----|--------|---------------|---------------|---------------|---------------|
| ## | [5901] | 1.071849e+04 | 5.115308e+03 | 2.953017e+03 | 1.186153e+04 |
| ## | [5905] | 2.749428e+03 | 5.006601e+03 | 1.168159e+04 | 1.100176e+04 |
| ## | [5909] | 3.526968e+03 | 5.467479e+03 | 3.049945e+03 | 5.288808e+03 |
| ## | [5913] | 4.026799e+03 | 3.473401e+03 | 5.487386e+03 | 1.205424e+04 |
| ## | [5917] | 1.612627e+04 | -8.520754e+02 | 1.221253e+04 | 4.161078e+03 |
| ## | [5921] | 5.967228e+03 | 4.462456e+03 | 9.670505e+03 | 4.637813e+03 |
| ## | [5925] | 1.100879e+04 | 1.255787e+04 | 1.184569e+04 | 1.110903e+04 |
| ## | [5929] | 3.304931e+03 | 6.014059e+03 | 1.084810e+04 | 5.773585e+03 |
| ## | [5933] | 3.746119e+03 | 1.026074e+04 | 4.283949e+03 | 1.782987e+04 |
| ## | [5937] | 4.932238e+03 | 4.240348e+03 | 3.491283e+03 | 3.307685e+03 |
| ## | [5941] | 4.723302e+03 | 1.148655e+04 | 1.108914e+04 | 4.929345e+03 |
| ## | [5945] | 5.763382e+03 | 1.054979e+04 | 4.858157e+03 | 1.202600e+04 |
| ## | [5949] | 5.744417e+03 | 4.638117e+03 | 1.011529e+04 | -1.825351e+03 |
| ## | [5953] | 9.689920e+03 | 1.183314e+04 | 8.580764e+04 | 1.147736e+04 |
| ## | [5957] | 5.758614e+03 | 5.454269e+03 | -6.852943e+03 | 1.162530e+04 |
| ## | [5961] | 1.195922e+04 | 9.811814e+03 | 1.194896e+04 | 5.993115e+03 |
| ## | [5965] | 4.622361e+03 | 5.364272e+03 | 4.945553e+03 | 5.322602e+03 |
| ## | [5969] | 3.826818e+03 | 1.762929e+04 | 3.815886e+03 | 1.188899e+04 |
| ## | [5973] | 9.256855e+03 | 3.340203e+03 | 5.813482e+03 | 4.946566e+03 |
| ## | [5977] | -6.386029e+03 | -6.409627e+03 | 1.043103e+04 | 1.144414e+04 |
| ## | [5981] | 5.157076e+03 | 5.598613e+03 | 5.486374e+04 | 3.978419e+03 |
| ## | [5985] | 3.711630e+03 | 8.077025e+04 | 1.114480e+04 | 4.526548e+03 |
| ## | [5989] | 4.119414e+03 | 2.969738e+03 | 1.314903e+04 | 5.377276e+03 |
| ## | [5993] | 5.566461e+03 | 5.710733e+03 | 4.933740e+03 | 3.713387e+03 |
| ## | [5997] | 6.412875e+03 | 4.382179e+03 | -1.471781e+03 | 1.160834e+04 |
| ## | [6001] | 4.297339e+03 | 2.207035e+03 | 4.858872e+03 | 5.130343e+03 |
| ## | [6005] | 1.066292e+04 | 4.248966e+03 | 2.408205e+03 | 1.722186e+03 |
| ## | [6009] | 5.150067e+03 | 6.535071e+03 | 1.091577e+04 | 1.578406e+04 |
| ## | [6013] | 1.088044e+04 | 9.570932e+03 | 1.039245e+04 | 5.617051e+03 |
| ## | [6017] | 3.665536e+03 | 4.963453e+03 | 4.573771e+03 | 3.156612e+03 |
| ## | [6021] | 3.098870e+03 | 4.345648e+03 | 1.129042e+04 | 5.164335e+03 |
| ## | [6025] | 6.057553e+03 | 1.031599e+04 | 1.132941e+04 | 3.449150e+03 |
| ## | [6029] | 4.486307e+03 | 1.388924e+04 | 1.000896e+04 | 5.423979e+03 |
| ## | [6033] | 1.037615e+04 | 2.297345e+03 | 7.846690e+03 | 5.595166e+03 |
| ## | [6037] | 4.513858e+03 | 4.276295e+03 | 3.071821e+03 | 1.046320e+04 |
| ## | [6041] | 1.054616e+04 | 8.571889e+03 | 4.090485e+03 | 6.118018e+03 |
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| ## | [6049] | 1.147140e+04 | 3.840956e+03 | 4.534783e+03 | 4.570614e+03 |
| ## | [6053] | 8.537891e+03 | 3.899062e+03 | 4.721168e+03 | 3.904125e+03 |
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| ## | [6061] | 4.394605e+03 | 4.423301e+03 | 5.249581e+03 | 5.449886e+03 |
| ## | [6065] | 1.107817e+04 | 1.204258e+04 | 9.590163e+03 | 6.195617e+03 |
| ## | [6069] | 4.139584e+03 | 7.914721e+03 | 1.017279e+04 | 9.261508e+04 |
| ## | [6073] | 6.744494e+03 | 5.388691e+03 | 5.746540e+03 | 5.458650e+03 |
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| ## | [6081] | 5.318440e+03 | 4.738215e+03 | 3.664225e+03 | 5.359679e+03 |
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| ## | [6093] | 5.009246e+03 | 4.382471e+03 | 6.419914e+03 | 9.731364e+03 |
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| ## | [6101] | 1.196629e+04 | 4.773424e+03 | 1.322843e+04 | 4.687435e+03 |
| ## | [6105] | 7.550465e+03 | 5.330322e+03 | 1.304459e+04 | 5.733212e+03 |
| ## | [6109] | 5.309514e+03 | 1.028151e+04 | 7.186174e+03 | 1.233322e+04 |
| ## | [6113] | 5.477669e+03 | 5.564767e+03 | 1.014660e+04 | 1.303267e+04 |
| ## | [6117] | 1.073371e+04 | 1.936590e+04 | 4.721417e+03 | 4.178311e+03 |
| ## | [6121] | 4.291147e+03 | 5.603516e+03 | 5.209479e+03 | 4.270202e+03 |
| ## | [6125] | 5.137096e+03 | 5.360233e+03 | 6.301938e+03 | 6.580206e+03 |
| ## | [6129] | 4.943108e+03 | 5.795621e+03 | 6.489012e+03 | -1.989355e+03 |
| ## | [6133] | 1.966097e+04 | 5.573584e+03 | 6.264185e+03 | 1.298688e+04 |
| ## | [6137] | 4.311058e+03 | 5.717574e+03 | 1.254413e+04 | 5.929778e+03 |
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| ## | [6157] | 1.335405e+04 | 1.664227e+03 | 1.846502e+04 | 1.359035e+04 |
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| ## | [6165] | 1.314524e+04 | 4.441000e+03 | 6.938912e+03 | 1.123849e+04 |
| ## | [6169] | 6.581436e+03 | 1.104409e+04 | 1.308993e+04 | 5.082552e+03 |
| ## | [6173] | 1.257850e+04 | 1.189285e+04 | 1.012244e+04 | 4.929614e+03 |
| ## | [6177] | 4.311030e+03 | 4.921762e+03 | 9.764134e+03 | 1.003949e+04 |
| ## | [6181] | 1.117041e+04 | 4.800426e+03 | 5.112017e+03 | 4.645378e+03 |
| ## | [6185] | 1.208409e+04 | 1.844999e+03 | -1.557954e+03 | 1.062769e+04 |
| ## | [6189] | 4.143802e+03 | 1.122638e+04 | 1.128333e+04 | 1.043701e+04 |
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| ## [16181] | 7.379434e+02 | 1.330715e+03 | 3.079308e+01 | 5.240364e+02 |
| ## [16185] | 2.576246e+03 | 7.530706e+03 | 4.792262e+05 | 9.460058e+02 |
| ## [16189] | 7.124410e+04 | 6.892500e+03 | 1.313739e+03 | 8.045370e+03 |
| ## [16193] | 4.766083e+04 | 9.698955e+03 | 8.817243e+02 | 1.202723e+05 |
| ## [16197] | 9.611743e+03 | 1.370135e+04 | 1.370135e+04 | 2.311998e+03 |
| ## [16201] | 1.147555e+03 | 8.360204e+03 | 1.159286e+04 | 8.980593e+02 |
| ## [16205] | 2.586207e+03 | 1.490831e+03 | 1.202457e+03 | 2.257830e+03 |
| ## [16209] | 6.269114e+03 | 1.907787e+03 | 7.722610e+03 | 6.529162e+03 |
| ## [16213] | 7.245962e+03 | 2.128755e+03 | -5.960701e+03 | 1.355395e+03 |
| ## [16217] | 9.111529e+02 | 3.031742e+05 | 1.724645e+03 | 6.185497e+03 |
| ## [16221] | -5.282281e+03 | 5.969576e+03 | 2.215738e+03 | 1.891770e+03 |
| ## [16225] | 4.759437e+03 | 1.563234e+03 | 2.595905e+03 | 1.531284e+03 |
| ## [16229] | 2.582280e+03 | -1.831139e+02 | -4.450922e+03 | 1.771074e+03 |
| ## [16233] | 7.548661e+03 | 1.486199e+03 | 6.991253e+03 | 7.156130e+03 |
| ## [16237] | 1.202457e+03 | 7.785849e+03 | 7.267538e+03 | 1.516460e+04 |
| ## [16241] | 1.812110e+03 | 1.800423e+03 | 4.194354e+03 | 7.867774e+02 |
| ## [16245] | 1.293271e+03 | 1.052254e+04 | 9.197924e+02 | 6.991682e+03 |
| ## [16249] | 9.752624e+03 | 4.041232e+03 | 1.978914e+03 | 8.740627e+03 |
| ## [16253] | 2.325654e+02 | 1.765810e+03 | -4.522049e+03 | 1.943325e+03 |
| ## [16257] | 7.595463e+03 | 5.130911e+02 | -3.706511e+03 | 2.499538e+03 |
| ## [16261] | 1.316483e+03 | 2.441655e+03 | 3.252223e+03 | 2.493470e+03 |
| ## [16265] | -6.430441e+03 | 5.374058e+03 | 2.813432e+03 | 5.688527e+02 |
| ## [16269] | -4.822626e+03 | 7.696834e+03 | 6.801346e+02 | 1.253208e+04 |
| ## [16273] | 2.325812e+03 | 1.968829e+03 | 1.025386e+05 | 7.249631e+04 |
| ## [16277] | 1.402416e+03 | 4.983763e+02 | 6.419764e+03 | 7.928924e+03 |
| ## [16281] | 6.381594e+02 | -3.220928e+03 | 7.674962e+03 | -4.646832e+03 |
| ## [16285] | 8.554644e+03 | 7.519312e+03 | 8.485905e+03 | 1.176313e+03 |
| ## [16289] | 7.839354e+02 | -4.428457e+02 | 9.845319e+02 | 1.746427e+03 |
| ## [16293] | 6.742855e+03 | 1.931213e+03 | 1.785108e+03 | 1.228301e+04 |
| ## [16297] | 1.481254e+04 | 1.222243e+04 | -1.104280e+03 | 1.956811e+03 |
| ## [16301] | -5.477094e+03 | 2.160442e+03 | 6.557990e+03 | 9.773306e+03 |
| ## [16305] | 3.061117e+02 | 2.313381e+03 | 7.568146e+03 | 2.268830e+03 |
| ## [16309] | 3.439881e+03 | 2.832538e+03 | 5.719833e+03 | 1.108740e+03 |
| ## [16313] | 1.351377e+03 | -5.199375e+03 | 1.576911e+04 | 8.475625e+03 |
| ## [16317] | 1.927172e+03 | -2.588117e+03 | 1.734998e+03 | 2.310805e+03 |
| ## [16321] | 8.908546e+02 | 7.389546e+02 | 7.555705e+03 | 2.144426e+03 |
| ## [16325] | 1.572462e+03 | 3.128723e+03 | 3.762911e+05 | 1.597588e+03 |
| ## [16329] | 9.905661e+02 | 2.674118e+03 | -5.177336e+03 | 2.487252e+03 |
| ## [16333] | 2.017801e+03 | 1.311023e+04 | 3.661210e+03 | 1.986142e+03 |
| ## [16337] | 2.023730e+03 | -4.830487e+03 | -4.493980e+02 | 1.287220e+03 |
| ## [16341] | 1.145965e+04 | 9.720419e+03 | 2.351156e+03 | 2.028972e+04 |
| ## [16345] | 2.521220e+03 | -3.564538e+03 | 5.606499e+03 | 1.411910e+04 |
| ## [16349] | 7.311473e+03 | 7.305406e+03 | -6.215574e+03 | 7.643521e+03 |
| ## [16353] | 1.255438e+03 | 1.566394e+03 | 1.947449e+03 | 1.396912e+03 |
| ## [16357] | 9.500395e+02 | 1.735887e+04 | 7.846311e+03 | 2.383544e+03 |
| ## [16361] | 3.015665e+03 | 8.631617e+03 | 2.210988e+03 | 1.965084e+03 |
| ## [16365] | 2.145719e+03 | 1.285180e+04 | 1.380176e+04 | 2.189224e+04 |
| ## [16369] | 3.216633e+04 | 1.737835e+03 | 7.775986e+03 | 8.514060e+03 |
| ## [16373] | 1.242319e+04 | 1.069823e+03 | 8.273107e+03 | 8.448888e+03 |
| ## [16377] | 1.732259e+03 | 1.553768e+03 | 6.552525e+02 | 1.540841e+03 |
| ## [16381] | 1.767056e+03 | 1.885394e+03 | 3.758309e+03 | 1.790337e+03 |
| ## [16385] | 1.689862e+03 | -5.682714e+03 | 6.423124e+03 | 2.027771e+03 |
| ## [16389] | 1.608051e+03 | 1.018895e+04 | 1.533408e+02 | -6.069663e+03 |
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| ## [16397] | 9.538998e+02 | 6.860996e+03 | 3.161873e+03 | 1.258166e+03 |
| ## [16401] | 7.404732e+03 | 3.088309e+03 | 3.109150e+03 | 1.096484e+04 |
| ## [16405] | -3.874176e+03 | 2.342851e+03 | 2.384508e+03 | -8.318188e+03 |
| ## [16409] | 3.067300e+02 | 5.101566e+02 | -5.466617e+01 | 2.223600e+04 |
| ## [16413] | 4.722949e+02 | 8.454264e+03 | 1.015599e+03 | 5.789278e+02 |
| ## [16417] | 1.568798e+03 | 9.866394e+03 | 3.351920e+03 | 7.221774e+03 |
| ## [16421] | 1.774234e+03 | 1.559217e+03 | 1.382522e+05 | 1.199452e+03 |
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| ## [16429] | -2.952144e+02 | 2.821551e+03 | 5.014846e+05 | 1.351639e+03 |
| ## [16433] | 8.926466e+03 | 1.049508e+03 | 8.460441e+03 | 5.312329e+05 |
| ## [16437] | 2.496663e+03 | 6.321109e+03 | 9.163654e+03 | 1.560838e+03 |
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| ## [16445] | 1.641768e+03 | 1.303531e+03 | 7.302708e+03 | -3.351573e+03 |
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[30321] 1.899316e+04 1.869404e+04 4.359758e+04 1.738615e+04

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## [30329] 1.628454e+04 1.514171e+04 9.993842e+03 2.126385e+04
## [30333] 2.265704e+04 2.259600e+04 1.612813e+04 1.885223e+04
## [30337] 1.535921e+04 1.656714e+04 2.312042e+04 1.545478e+04
## [30341] 1.869162e+04 1.695807e+04 1.819887e+04 1.696432e+04
```

Conclusion

Of all models, the PCR model best predicted total healthcare charges of patients at time of discharge. The PCR model had very similar RMSE values to the linear model and lasso regression model, and thus, they have similar prediction performance. By listing the most important variables in predicting charges, we gained insight into the most important predictors for healthcare charges, particularly gaining knowledge that length of stay and total costs have much greater importance in predicting the charges compared to other variables. Birthweight is the top 6th highest importance, which is expected, as it often recorded in literature. It was of valuable insight to learn that the APR risk of mortality (minor, major, and moderate) has strong importance in determining total charges as well as congenital anomalies and Urgent admission types.