***“Which factor should a country give importance in order to improve the life expectancy of its population?”***

Submitted to Dr. Longlong Huang

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for STAT 315 project

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**Introduction**

“Life expectancy is defined as an average number of years that a newborn is expected to live if current mortality rates continue to apply” (World Health Organization [WHO], 2006). Nowsaday, life expectancy is considered as a measure of how well the health care system is of a country in the sense that the population will have longer average lifetime if this country has good health care services. As this measure is extremely critical, all the countries are making a lot of efforts to increase it year over year. With the idea of helping the governments to improve the life expectancy of their population, there have been many studies investigating its influencers which include demographic variables, economic indicators and mortality rates. However, immunization factors and individual income might have significant influences on life expectancy as well. Therefore, we conducted our research taking a broader view of all potential factors including those from previous studies – demographic, economic factors, mortality numbers – and the new predictors which are immunization and income factors.

**The goal of our project**

The main goal of this project is to use applications of multiple linear regression and the programming language R to create different types of multiple linear regression models learned in the class to study which factors impact on life expectancy. With this learning, we will be able to answer the question: ***“Which factor should a country give importance in order to improve the life expectancy of its population?”***

**Data Collection**

For this analysis, we decided to use life expectancy dataset obtained from the website: https://www.kaggle.com/kumarajarshi/life-expectancy-who/version/1. The dataset recorded for 193 countries in a period of 16 years from 2000 to 2015. The data related to life expectancy and health factors were collected from the Global Observatory (GHO) data repository under World Health Organization (WHO) website, and the corresponding economic data was collected from the United Nation website.

We chose to examine data in a period of 16 years from 2000 to 2015 for 193 countries resulting 2,938 observations. However, as we noticed that some countries were missing information, we chose to remove those records. This gave a total of 1,649 observations without missing records which can lead to a miscalculation in this analysis. Using random sampling method, we then divided the dataset into two subsets: the training data containing 75% of the dataset and the rest in the test data. The training data was used to fit our linear regression models, and then the test data was examinated how efficiently our models predicted life expectancy. The R command line for random sampling technique is showed below:

set.seed(123)

sample <- sample.int(n = nrow(data), size = floor(.75\*nrow(data)), replace = F)

train <- data[sample, ]

test <- data[-sample, ]

Our response variable was recorded in the column life expectancy in the data file which was denoted by:

Response Description

y Life expectancy       Life expectancy for a country’s population in a given year

There were 20 variables including 1 qualitative variable and 19 quantitative variables:

Qualitative       Description

x2 Status       The status of country

There were two categories in the variable status which are developed and developing countries.

Quantitative       Description

x1 Year

x3 Adult Mortality       Probability of dying between 15 and 60 years per 1000

population

x4 Infant deaths       Number of Infant Deaths per 1000 population

x5 Alcohol       Alcohol, recorded per capita (15+) consumption (in litres)

x6 Percentage Expenditure     Expenditure on health as a percentage of Gross Domestic

Product per capita(%)

x7 Hepatitis B       Hepatitis B immunization coverage among 1-year-olds (%)

x8 Measles       Measles - number of reported cases per 1000 population

x9 BMI       Average Body Mass Index of entire population

x10 Under-five deaths       Number of under-five deaths per 1000 population

x11 Polio       Polio immunization coverage among 1-year-olds (%)

x12 Total expenditure       General government expenditure on health as a percentage of

      total government expenditure (%)

x13 Diphtheria       Diphtheria tetanus toxoid and pertussis (DTP3) immunization

      coverage among 1-year-olds (%)

x14 HIV/AIDS       Deaths per 1000 live births HIV/AIDS (0-4 years)

x15 GDP       Gross Domestic Product per capita (in USD)

x16 Population       Population of the country

x17 Thinness 10-19 years       Prevalence of thinness among children and adolescents for

Age 10-19

x18 Thinness 5-9 years       Prevalence of thinness among children for Age 5-9

x19 Income composition       Human Development Index in terms of income of resources

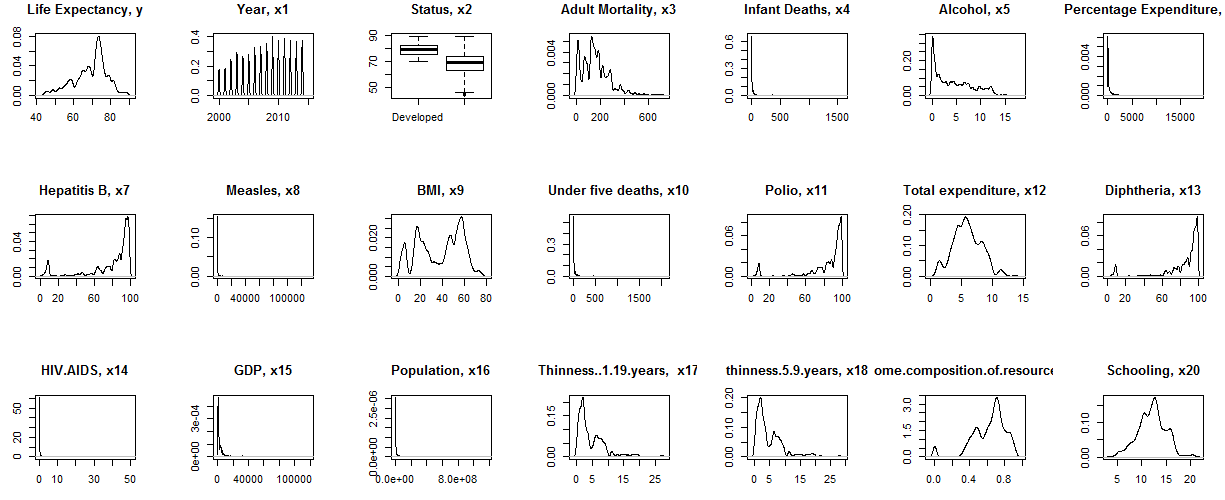
composition of resources (index ranging from 0 to 1)

x20 Schooling       Number of years of Schooling

As mentioned in the beginning, our 20 variables can be grouped into 5 different types of factors: Health, Economic, Immunization, Mortality, and Social.

* Health factors: x5, x9, x17, x18
* Economic factors: x6, x12, x15, x19
* Immunization factors: x7, x8, x11, x13
* Mortality factors: x3, x4, x10, x14
* Social factors: x16, x20

Before creating any data model, we observed that the response variable followed an approximate normal distribution with the mean of 69.25 years and data ranging from 44 to 89 years. The normality also showed in the distribution plots of x1, x2, x19, x20; the rest however had some skewness in their distributions.



**Figure 1: Distribution of Variables**

**Methodology**

*Full model*

First, a multiple linear regression model was created using all 20 explanatory variables and the following R command line.

lm(y~x1+factor(x2)+x3+x4+x5+x6+x7+x8+x9+x10+x11+x12+x13+x14+x15+x16+x17+x18+x19+x20)

The response variable was life expectancy (y) and remaining variables were the predictors. The categorical variable (x2) was runned with the function factor which is always used to create a number of different levels based on the corresponding number of categories of the variable. The model was runned using only 75% of data; in total 1,649 observations  and the remaining observations were stored in the second subset – test data. Therefore, using the data from the first subset – training data – with 75% dataset, the full model was produced:

~ is constant

A close up of text on a white background

Description automatically generated

**Figure 2: Summary output of the full model**

From the output, we noticed that the global F-statistic resulting a low p-value pointed out that the model was valid; however, 10 of the total 20 predictors had p-values greater than the 5% significance level which inferred that the model might include unnecessary information. Therefore, we proceeded next step with a variable selection technique called best subset selection in order to remove insignificant predictors out of the model. This leaded to model 1.

*Model 1*

Using the variables above, the best subset technique was applied using the following R command line:

X <- cbind(x1, x2, x3, x4, x5, x6, x7, x8, x9, x10, x11, x12, x13, x14, x15, x16, x17, x18, x19, x20)

BS <- regsubsets(as.matrix(X),y)

summary(BS)

The output was 8 different combinations of predictors, we then computed the adjusted R-squared, AIC, corrected AIC, and BIC for each subset. The result was recorded in the table below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Size | Predictors | Adjusted  R-squared | AIC | AICc | BIC |
| 1 | x20 | 0.5364 | 4451.051 | 4,451.060 | 4,461.290 |
| 2 | x14, x20 | 0.7263 | 3800.621 | 3,800.641 | 3,815.980 |
| 3 | x3, x14, x20 | 0.7824 | 3518.318 | 3,518.351 | 3,538.797 |
| 4 | x3, x14, x19, x20 | 0.8049 | 3384.114 | 3,384.163 | 3,409.712 |
| 5 | x3, x9, x14, x19, x20 | 0.8110 | 3345.722 | 3,345.791 | 3,376.440 |
| 6 | x3, x4, x10, x14, x19, x20 | 0.8172 | 3305.408 | 3,305.499 | 3,341.245 |
| 7 | x3, x4, x6, x10, x14, x19, x20 | 0.8231 | 3265.85 | 3,265.968 | 3,306.807 |
| 8 | x3, x4, x6, x9, x10, x14, x19, x20 | 0.8281 | 3231.72 | 3,231.867 | 3,277.797 |

**Table 1: Best subset output using 20 variables**

The subset with highest adjusted R-squared, lowest AIC, AICc, BIC was the best one to explain the variation in the response variable. Leaving us with only 8 variables that were selected for the best subset model as followed: x3, x4, x6, x9, x10, x14, x19, x20. Therefore, the best subset model was created with the following R command line:

lm(y~x3+x4+x6+x9+x10+x14+x19+x20)

taking the form:

~ is constant

*A screenshot of text

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**Figure 3: Summary output of the best subset model**

The global F-statistic resulting a p-value lower than the 5% significance level proved the validity of the model. The individual p-value of all 8 predictors were lower than 5% as well suggesting that all explanatory variables were significant. With negative parameters, there were negative effects of x3, x10, x14 on the response variable life expectancy, while the rest of predictors showed positive influence. However, it seemed not to make sense when x4 – the number of infant deaths had a positive effect on the life expectancy; in other words, life expectancy could not increase when the number of infant deaths was increased. Therefore, we proceeded with multicollinearity test to examinate if any correlation between predictors could make the model inapproriate. The Variance Inflation Factor (VIF) output was as below.

![A screenshot of text

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1vLlBoYW4AAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzk0AACSkgACAAAAAzk0AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*VIF calculation of the full model*

![A screenshot of text

Description automatically 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*VIF calculation of the full model after removing x4*

![A screenshot of text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1vLlBoYW4AAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzk0AACSkgACAAAAAzk0AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*VIF calculation of the best subset model*

![A screenshot of text

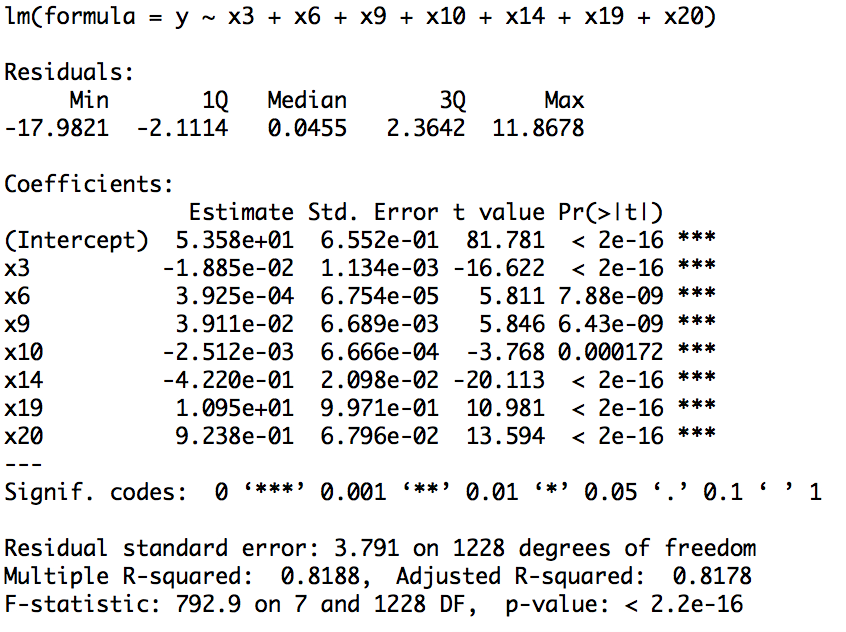
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IZssV3DAJU8Cuj0LSP7C0eLT/7Qv8AUfKLH7TqE/mzPuYt8zYGcZwPQAU3RtFOkSX0jaleXzXs/nubkRDY20LhfLReMKo5z0+tWvZpST17feDvoYvhXxVd+KNF1WayuNHur22uDHCtrc+ZCgKKyB3UtuILEFgACVOAKtR65qKeAp9WkihudQgjmysMTrG7I7LnblmA+XJAJPXGas2Xh6Wxt9TSPXNRabUJvONw62++BtoX5AIgvRVHzBulN0jw5PpGlXNjH4g1O4E24xzTJbb7dmJJZNsIUkls/MGHA4xVSdN3t5d+2oK99fMw9M8cyXNlq6Q6hpOu3FisLQ3emho7eQzMUVG+eTBVh82GbgjgHitey1DXQ+qaZcNp17qlpFFNDJHHJbQusm4KGUtIwIMbZwTkY6VLD4XiGn31vf6heajPfKElu7nyhIoX7gUIioNpJYfL1JJzS2/hryrG9jn1fUrm7vAofUHeOOdAv3AvloqAKcnG3Byd2QSKcpU3e39benn2BFbwjrt5q51CHUJI5ntJFUSrYS2LHcucGCZmdcdmJw2eOhrdvjdixl/s0Qm624i+0EiMN6tjnA64HXpkdapaPof9lTXNxPqN5qd3c7BJc3hj3bFztQLGiIANzHhcksck1Jruk/27olzppvruwW4Xa09k6pKozyASCBnoeOhNZzcXPTYaKfhnUr+//tCLUZ7G8+x3PkJeWEbRxykKCy7GZ8MrEqfmIyOxBAua/qE2leH72+tYlmmt4WdEbOCR7Dk/QcnoOTUeg6KdB04WS6hcXkKALCs0MEQhUDAVVhjRQPwqC08Mx23hU6HNqepXq4bF7eTiW4BLlw28jBKnGMgj5QCDTlyc1/T59xIyLDxVqreGtavJ4o7qfTxmGQ6fPY+Z8gODBKWkGM9s7ui80WHirVW8Na1eTxR3U+njMMh0+ex8z5AcGCUtIMZ7Z3dF5rUi8LILC/gvtVv7+e+Ch7ycQrLHs+5tEcap8pywyp5PORxRF4WQWF/Bfarf3898FD3k4hWWPZ9zaI41T5TlhlTyecjitHKlr8v08vXt/klfQzNN8YXEHhvWtT1vbLHpYLiYWEunmQbA20wzsXXB43E4OeOhqTw34g1bXNLvbiK50+5uxGjwWjWN1ZCLdkgs8uWlQ9nWNQ208DoulbeFrcWOoW2r3l1rP9ooI7iS9ESs0YBAQCJEUAZJzjOT14GI7bwr5NveC41rVLu6uYkhF7I8aTQohJUKY0UcMxPzBt2cNkcUOVK0vl/W3+Q1fQy9N8ZzQ6Frt/rTxzrpC7zIllLYM42btphmYuvs5O1s8dDV3wbr13r0NxNeXlrKQqOttDptxatCGyR805BlU4wJAiA7W47C1beFLUWmoQ6td3estqUYiuZb4oC0YBCoBGqKoG5jwoOWJz0xNo2g/wBkzzXE+p3uqXMsaRefe+VvWNCxVB5aIMZZjkgk55JwKUpUmpW30/rb/IOhfvmu1sZjpscMl1t/dLO5RC3+0QCcfQVheEddvNXOoQ6hJHM9pIqiVbCWxY7lzgwTMzrjsxOGzx0Nbl/Z/b7CW2+0T2xkXAmtpNkkZ6hlPqD2IIPQggkVS0fQ/wCypbm4n1G91O7utqyXN4Y92xc7UCxoiADcx4XJLHJNZRceR33/AK/r/PoybXNQk0vRZ7q3jWWZdqxI7FVLswVdxHIGWGcdqxJNe1jTLDW4dQNlfahptulzHJbQPDG6PuABQu7ZBjbgMSwxgZOK0LPwzDbeFToVxqGoajGyuDd30wmuMsxYHcRjKkjbxxtHpTIvC0f9n30F7qV9fXF6FEl7P5QlTb9zaERUG05YfL1JznNWvZpNb/1/w4dSn4e1vWdW0zUhtt5ru3YJbzTWM+npISoOGhlLSKAT16N271f0q/1S/wDCouQLOTU/3sYO1ooWdXZAcZZgPlzjJPv3os/D01pbXoOuajPe3gUG/lS382ML90KqxCPjLdUJ+Y57YZpfhq40nSbixi8RapN5pLRzypbb7clizFNsIU5LH7wb2xTm4O9rdP62/wAiVcdpd/qt94UFyqWc2p/vEAO+GF3V2TP8bKPlzjn0z3rJ0rxoYNG1q+8RXEbQaThnnSwlsmIK5wYJmLjnoxO1s8dDWlp3hZ9P0a501tf1a5SYlo5XaGOS3YsWLIYo06sc4bcOMYxkG3o+h/2VNc3E+o3mp3dzsElzeGPdsXO1AsaIgA3MeFySxyTQ3T97+v0/rzGtkZvgjxSfFNnfyvdabO9tdeWBp04lREKK6gsGIZhuKlhgEqcAV01ZmjaKdIkvpG1K8vmvZ/Pc3IiGxtoXC+Wi8YVRznp9a06zqOLleO2n5Ar9QooorMYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH//2Q==)

*VIF calculation of the best subset model after removing x4*

**Figure 4: VIF output**

It turned out that x4 and x10 had extreme high VIF value greater than 5 which was considered as a valid range. This answered why we had an abnormal relationship between x4, the number of infant deaths, and the response variable. Therefore, we decided to remove the highest VIF variable x4, leaving us with model 1 which consisted 7 variables, such as the following::

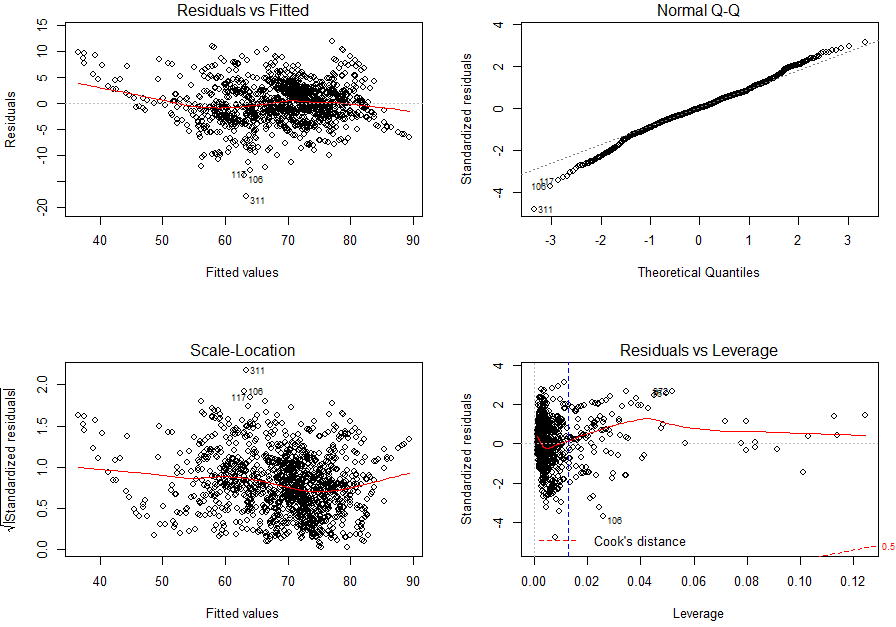
~ is constant



**Figure 5: Summary output of model 1**

After x4 were taken out, we had a valid model with all significant predictors having p-value lower than the 5% significance level. Form the Residuals vs. Fitted Values Plot, the residuals scattered randomly suggesting that the model assumption of variance constant was hold. The Q-Q Plot showed the normality of the dataset with a straight line despite some problems was presented at the lower tail. In the Residuals vs. Leverage Plot, all the residuals lied in the range from -4 to 4, which was considered as a reasonable range to check if there was existence of an outlier for a big dataset. Therefore there were no outliers though we had 119 leverage points.

However, we noticed that the Residuals vs. Predictor Plots (see Appendix A) still showed some skewness to the right for x3, x6, x10, and x14 suggesting that the original data of those predictors might not be the best form to explain the variation in the response variable. This problem was handled in the later models.



**Figure 6: Diagnostic plots of model 1**

To observe which model did a better job in terms of explaining the response variable, we conducted the analysis of covariance for the two above models, one with x4 and one without x4, which allow us to do hypothesis testing with the following hypotheses:

Ho : 2 = 0 vs HA : 2  0

The model with x4 was considered as the full model for the test, while the model 1 was used as the reduced model in the test. From the output (see Appendix B), the partial F-test resulting a p-value close to zero suggesting that we failed to reject Ho at the 5% significance level. Therefore, the reduced model was recommended to use.

*Model 2*

As learned in the previous model that x4 and x10 were highly correlated, we examinated another approach taking out x4 and then finding the best subset for the rest predictors. It turned out that we had other 8 different combinations of explanatory variables in the table below.

The R command lines was used as below:

X <- cbind(x1, x2, x3, x5, x6, x7, x8, x9, x10, x11, x12, x13, x14, x15, x16, x17, x18, x19, x20)

BS <- regsubsets(as.matrix(X),y)

summary(BS)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Size | Predictors | Adjusted  R-squared | AIC | AICc | BIC |
| 1 | x20 | 0.5364 | 4451.051 | 4451.07 | 4461.29 |
| 2 | x14, x20 | 0.7263 | 3800.621 | 3800.654 | 3815.98 |
| 3 | x3, x14, x20 | 0.7824 | 3518.318 | 3518.367 | 3538.797 |
| 4 | x3, x14, x19, x20 | 0.8049 | 3384.114 | 3384.182 | 3409.712 |
| 5 | x3, x9, x14, x19, x20 | 0.811 | 3345.722 | 3345.813 | 3376.44 |
| 6 | x1, x3, x9, x14, x19, x20 | 0.8159 | 3314.762 | 3314.879 | 3350.599 |
| 7 | x1, x3, x9, x14, x15, x19, x20 | 0.8185 | 3297.588 | 3297.735 | 3338.545 |
| 8 | x1, x3, x5, x6, x9, x14, x19, x20 | 0.8208 | 3282.996 | 3283.176 | 3329.073 |

**Table 2: Best subset output after removing x4**

Model 2 was produced with the best subset consisting 8 following variables: x1, x3, x5, x6, x9, x14, x19, x20, such as the following:

~ is constant

A close up of text on a white background

Description automatically generated

**Figure 7: Summary output of model 2**

A close up of a map

Description automatically generated

**Figure 8: Diagnostic plots of model 2**

At 5% significance level, the model was valid due to low p-value of the global F-test. All the predictors were significant as their p-values lower than the 5% significance level as well. There were no abnormal relationship between explanatory variables and the response variable.

The Residuals vs. Fitted Plot showed no violation of the assumption constant variance. The normality assumption was held with the straight line in the Q-Q Plot. All the residuals scattered in the range of -4 to 4 suggesting that there were no outliers in the dataset. However, there were some skewness in the Residuals vs. Predictors plot (see Appendix C) for x6 and x14. This problem would be solved by normalizing the data in the next model.

*Model 3*

Though model 1 and model 2 appeared to be good models which were able to explain the most variation in response variable, particularly 81.78% and 82.08% of variation respectively using adjusted R-squared, there were still problems of normality when looking at the Residual vs. Predictor Plots. To fix this issue, we decided to use the box-cox transfomation to normalize the data. At the first try of this transformation technique, the box-cox command was not excuted for the following predictors: x4, x6, x8, x10. The reason might be that the abundance of zero values in the raw data made those predictos be inefficiently transformed by the log or any other functions. The histogram plots below showed more details for this point.

*x4, infant deaths x6, percentage expenditure*

*x8, measles x10, under-five deaths*

**Figure 9: Histogram plots of x4, x6, x8, x10**

We chose to convert those variables from quantitive to qualitative using the manual grouping technique. First, we sorted the data in the ascending order, chose the split points that divided the data into a numbers of intervals, and then mapped each record of the dataset with its orresponding interval. It turned out that x4 and x10 was grouped into 4 following groups: zero, from 1 to 2, from 3 to 30, and 30 or more; x6 was splited into 4 intervals: 0, greater than 0 and equal to or less than 100, greater than 100 and equal to or less than 1000, and 1000 or more; x8 was categorized into 3 following levels: 0, from 1 to 10, and 10 or more. The categorization output was summarized in the table below.

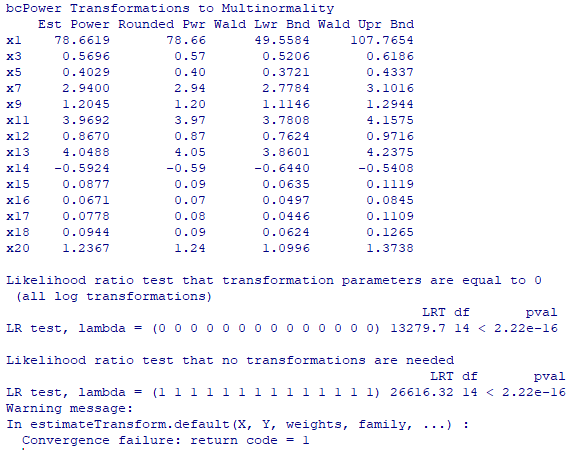
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Predictors | Level 1 | Level 2 | Level 3 | Level 4 |
| x4 | 0 | 1-2 | 3-30 | 30-1,600 |
| 24% | 22% | 35% | 20% |
| x6 | 0 | 0 < x <= 100 | 100 < x <= 1000 | 1000+ |
| 0.3% | 45% | 41% | 13% |
| x8 | 0 | 1-10 | 10-140K |  |
| 34% | 14% | 52% |  |
| x10 | 0 | 1-2 | 3-30 | 30-1,600 |
| 21% | 21% | 33% | 25% |

**Table 3: Table of categorical levels of x4, x6, x8, x10**

For the rest of predictors, we applied the box-cox transformation using the following R command line:

summary(powerTransform(cbind(x1,x3,x5,x7,x9,x11,x12,x13,x14,x15,x16,x17,x18,x20)~1, data=train))

The output was as below:



**Figure 10: Box-cox transformation output**

From the output, we decided to transform x3, x5, x7, x11, x13, x14, x15, x16, x17, x18 with the following funtions:

Predictor Transformed funtion New predictor

x3 square X3

x5 square X5

x7 raise to the power of 3 X7

x11 raise to the power of 4 X11

x13 raise to the power of 4 X13

x14 1 divide square of x14 X14

x15 natural logarithm X15

x16 natural logarithm X16

x17 natural logarithm X17

x18 natural logarithm X18

As above, 10 new variables were created due to transformation. Owing to the conversion from numeric to categorical variables of x4, x6, x8, x10; we also had 4 more new predictors denoted by x4n, x6n, x8n, x10n. After all, using new predictors and the orginal x1, x2, x12, x19, x10; we proceed with the best subset technique as below:

X <- cbind(x1, x2, X3, x4n,X5, x6n, X7, x8n, x9, x10n, X11, x12, X13, X14, X15, X16, X17, X18, x19, x20)

b <- regsubsets(as.matrix(X),y)

summary(b)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Size | Predictors | Adjusted  R-squared | AIC | AICc | BIC |
| 1 | X14 | 0.5653 | 4,371.459 | 4,371.469 | 4,381.699 |
| 2 | X14, x19 | 0.7289 | 3,788.639 | 3,788.658 | 3,803.998 |
| 3 | X3, X14, x19 | 0.7639 | 3,618.698 | 3,618.730 | 3,639.176 |
| 4 | X3, X14, x19, x20 | 0.7810 | 3,527.200 | 3,527.249 | 3,552.799 |
| 5 | X3, X14, X18, x19, x20 | 0.7887 | 3,483.765 | 3,483.834 | 3,514.483 |
| 6 | X3, X13, X14, X18, x19, x20 | 0.7925 | 3,462.166 | 3,462.258 | 3,498.004 |
| 7 | X3, X13, X14, X15, X18, x19, x20 | 0.7946 | 3,450.863 | 3,450.980 | 3,491.820 |
| 8 | X3, x8n, X13, X14, X15, X18, x19, x20 | 0.7974 | 3,435.878 | 3,436.058 | 3,487.074 |

**Table 4: Best subset output after transformation and converting to categorical variables**

The best subset model having 8 following predictors: X3, x8n, X13, X14, X15, X18, x19, x20 leaded to model 3 with the below summary output:

~ is constant

The model itself and all its predictors were significant with p-value lower than the 5% significance level. The model assumptions of normality and constant variance was not violated in the diagnostic plots (see Appendix D). Observing the Residuals vs. Predictor Plot, there were a significant improvement for all predictors. Most of them showed a random scatter pattern. The normal distribution were also seen in all levels of the categorical variable – x8. Thus model 3 solved the problem that we could not fix in model 1 and 2.

A close up of text on a white background

Description automatically generated

**Figure 11: Summary output of model 3**

![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1vLlBoYW4AAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzE4AACSkgACAAAAAzE4AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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qLQiF4j9oiAA2yB0Zc4X7yhWGTgjNb1vBHa20VvAgSKJAiKP4VAwB+VW7Xdu/9fp/W49ySiiipAKKKKAK9+bwafP8A2WIDebD5P2gkR7u27aM4+n6da4xfEniSSb+yYJ9JuL6TUTZxamtnILbCQtJIPK80kspUocSYyfVWWuv1fTjq2j3Wni8urH7TGYzcWjhJYwepViCAffFYUfgYR6PbWA1/VA1lKsllcRx2sT2mEKbUVIFj2lWYYZW68YIGF3Ga/h3VH1vw3YalLEsMtzCryRqchH/iAPcA55rSqrpmnW+kaVa6dZBlt7WJYowzFjtUYGSep96tVT3JWwUUUUhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFUNb1CfStKkvbaya9EBDyxI2H8sH52UYO5gMkLxnGM0BuX6K5S/8cfZfCup+IbPTJNQsLZGeye2lB+2KqFmkzjakY2nDkncBwDlQxrnjObSfEFlpsWnwzC4ERxJd+XNNvfaRbx7D5xQDc43LtBB707dA6XOrooopAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFVtQv7fS9PnvrwutvAheRo4mkIUdTtUEn8BWHrPjew0/w7quqaXFLrB01GLx2oOxmEfmEeaRsAC8k5OOmCxCkGk27HS0VyureM5dN1aeIWEL2NlHbyX1xJd7JIxMxVPLj2HfgjnLL6DceK6qglNMKKKKBhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFVNS1S00i2W41CQxQtIsXmeWzKpY4G4gHaMn7xwB3NAFuiuX1TxbcrpsupeHNPt9T0+2SZ7m7uL02sYERwwjJRt54bnhPl+/TYPGctx4gitV0pk02S5WyN3JPtlW4aDzgpi28LghS27O7jbjmha7A9DqqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKoazp02q6ebKK6NrFKwW4ZUJd4v4kUgjaSON3OBnHOCL9FAHNSeEMeH9d0S1vRBp2qRSpbw+Tn7EZVIfb8w3JuO4LxglhnBAEGs+DLjU9SuJINThgs7+KCK9iez8yVhCxZTFJvHlnnur4PIwa6yigOlgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAq6nBd3WmTwaddrZXMibY7hovN8vPfbkZOOnOM44PSudtPAkeneDdW8L2F+6aZeQSQ2qyoZHtfMQhyWLZcFiWwcYJIzjGOsooGm00+xyXiHwOviHWrO6uZrE29uIwwm01JLhQrbisU+QYw/AYENkZxtzmutooo6WJtYKKKKBhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFZniHSZdd0eTTUu/ssFyRHdFULNJCfvopyNhYcbucAnAzgjTopNJ7htscPL4G1qO102x0/wAQWf8AZmmMfs9nfabJOpAIMO8rOhcxgYXPHRiCyhhoJ4Ruv+ElW/l1SNrL7Ut/JZra7S1yIfK3B95xHgBtm0nd/FjiuooqrsOlgooopAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/2Q==)

**Figure 12: Residuals vs. Predictor Plots of Model 3**

*Model 4*

Model 4 was produced by another approach to fix the abnormal distributed predictors in which x4 were taken out at the first step. Instead of converting to categorical variables, we tried to do some manual transformation for x6 and x8 with the power of 0.01 creating two new variables X6 and X8. After that, the best subset is applied to choose the best combination of predictors.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Size | Predictors | Adjusted  R-squared | AIC | AICc | BIC |
| 1 | X14 | 0.5653 | 4,371.459 | 4,371.469 | 4,381.699 |
| 2 | X14, x19 | 0.7289 | 3,788.639 | 3,788.658 | 3,803.998 |
| 3 | X3, X14, x19 | 0.7639 | 3,618.698 | 3,618.730 | 3,639.176 |
| 4 | X3, X14, x19, x20 | 0.7810 | 3,527.200 | 3,527.249 | 3,552.799 |
| 5 | X3, X14, X18, x19, x20 | 0.7887 | 3,483.765 | 3,483.834 | 3,514.483 |
| 6 | X3, X6, X14, X18, x19, x20 | 0.7930 | 3,459.098 | 3,459.189 | 3,494.935 |
| 7 | X3, X6, X13, X14, X18, x19, x20 | 0.7966 | 3,438.413 | 3,438.530 | 3,479.370 |
| 8 | X3, X6, X8, X13, X14, X18, x19, x20 | 0.7993 | 3,422.910 | 3,423.057 | 3,468.987 |

**Table 5: Best subset output after transformation**

Model 4 was created with the best subset including 8 following predictors: X3, X6, X8, X13, X14, X18, x19, x20:

~ is constant

From the output, the F-statistic resulting the p-value lower than the 5% significance level suggested the validity of the model. All predictors were useful and significant at 5% significance level. There were no violation of model assumptions in the diagnostic plots (see Appendix E). The Residuals vs. Predictor Plot had a lot improvement in terms of normalizing the predictors’ distributions; however X6 and X8 still had some problem with two clusters at 0 and 1 even after transformation.

**A screenshot of text

Description automatically generated**

**Figure 13: Summary output of Model 4**

![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1vLlBoYW4AAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzc1AACSkgACAAAAAzc1AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 14: Residuals vs. Predictor Plots of Model 4**

**Results**

After all, we had four valid models which explained the best of all of variations in the response variable. Using four models, we predicted the life expectancy for the test data; then evaluated the efficiency of predictions by calculating the mean absolute percentage error (MAPE) which were the absolute difference between the predicted and observed values. Among four models, model 2 resulted the highest adjusted R-squared, lowest AIC, AICc, BIC and MAPE. We chose model 2 as our final model.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Model | Predictors | Adjusted  R-squared | AIC | AICc | BIC | MAPE |
| 1 | x3, x6, x9, x10, x14, x19, x20 | 0.8178 | 3,302.55 | 3,302.67 | 3,343.51 | 4.05% |
| 2 | x1, x3, x5, x6, x9, x14, x19, x20 | 0.8208 | 3,283.00 | 3,283.14 | 3,329.07 | 4% |
| 3 | X3, factor(x8n), X13, X14, X15, X18, x19, x20 | 0.7974 | 3,286.47 | 3,286.62 | 3,332.55 | 4.46% |
| 4 | X3, X6, X8, X13, X14, X18, x19, x20 | 0.7993 | 3,422.910 | 3,423.057 | 3,468.987 | 4.41% |

**Table 6: Table of Model Comparison**

Final model taking the following form:

Life Expectancy = 34.45 – .146 (Year) - .018 (Adult Mortality) -.15 (Alcohol) + .00004 (Percentage Expenditure) + .041 (BMI) - .428 (HIV/AIDS) + 11.79 (Income composition of resource) + 1.059 (Schooling)

**Conclusion**

From the final model, the factors such as year, adult mortality, alcohol, percentage expenditure on health, BMI, HIV/AIDS, income and number years of school influenced the response variable life expectancy. Among those, percentage expenditure on health, BMI, income, and number years of school had positive effects on life expectancy which inferred that life expectancy would increase if we rose the value of those predictors. Conversely, year, adult mortality, alcohol and HIV/AIDS impacted negatively on life expectancy which can be interpreted that life expectancy would increase if those variables increased in their values. The factor income had the highest influence; in particularly life expectancy would increase by 11.79 years when income composition increased by 1 unit while other predictors are kept fixed. The factor HIV/AIDS made the highest negative impact on the response variable that was a decrease by 0.4276 years in life expectancy when HIV/AIDS increased by 1 unit while other predictors are kept fixed.

Our study might not investigate all aspects of the issue due to some limitations in random sampling, the technique that converting continous to categorical variables. For next researches on this topic, we will consider to solve those problem to improve the accuracy of data models.

**References**

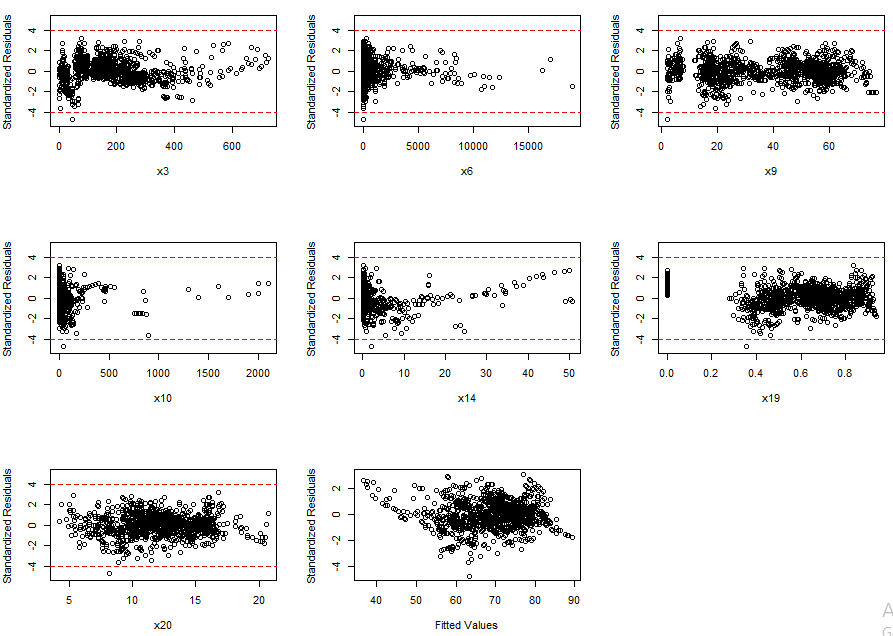
Simon, J. (2009).  A Modern Approach to Regression with R. New York, NY: Springer Science + Business Media, LLC

Rajarshi, K. (2018). Life Expectancy (WHO). Statistical Analysis on factors influencing Life Expectancy. Retrieved from https://www.kaggle.com/kumarajarshi/life-expectancy-who

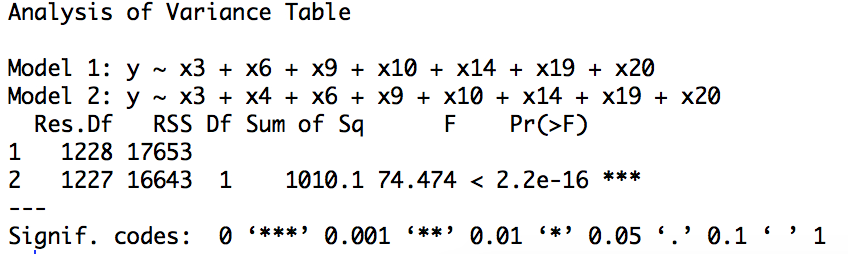
World Health Organization (2006)*. WHO Stat 2006 definitions and metadata*. Retrieved from https://www.who.int/whosis/whostat2006DefinitionsAndMetadata.pdf

**APPENDIX**

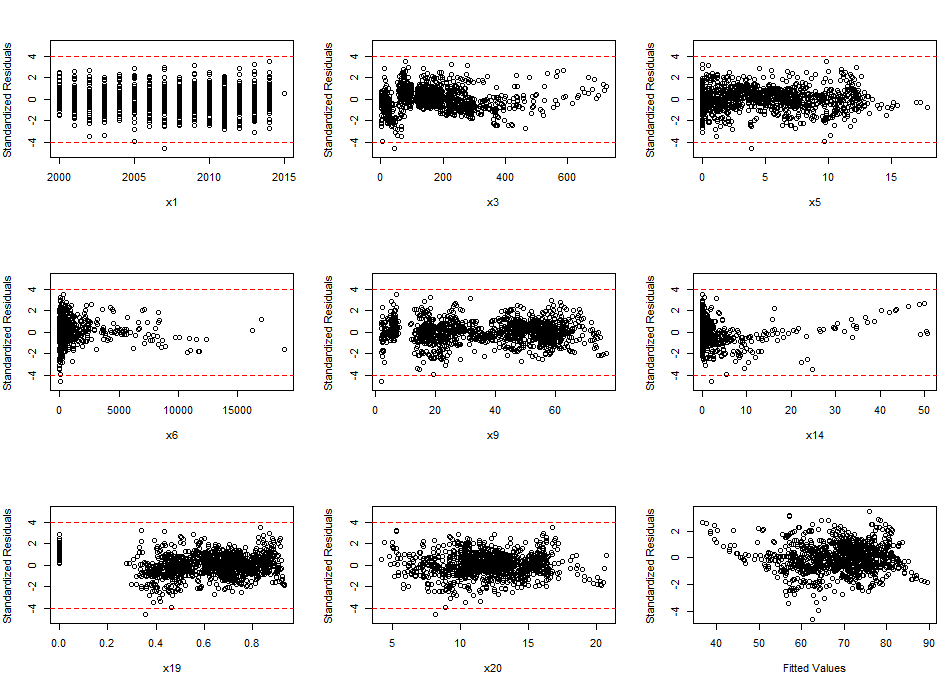
***A: Residuals vs. Predictors Plot of Model 1***

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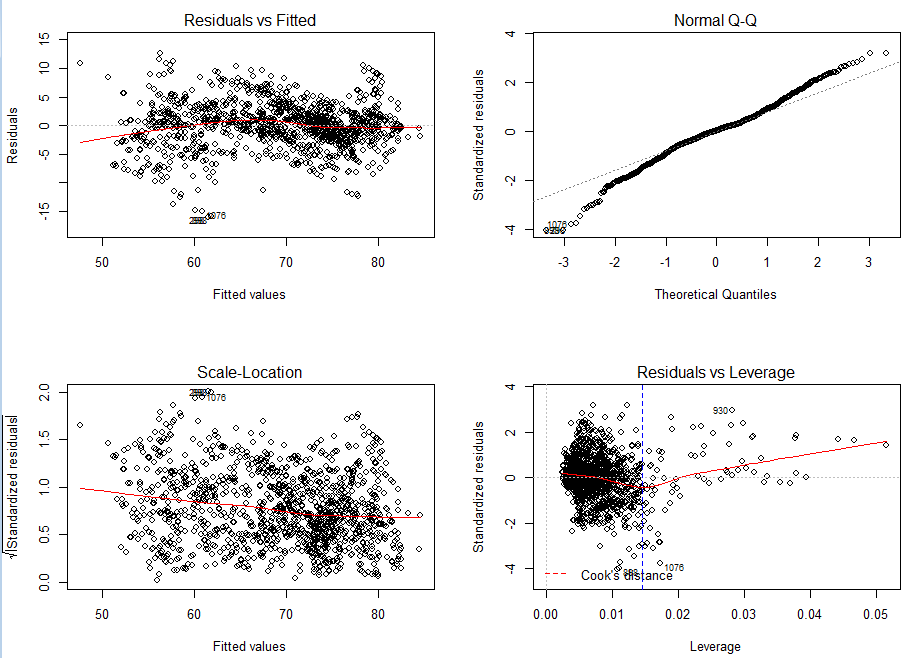
***B: Analysis of Covariance Output***

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***C: Residuals vs. Predictors Plot of Model 2***

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***D: Diagnostic Plot of Model 3***

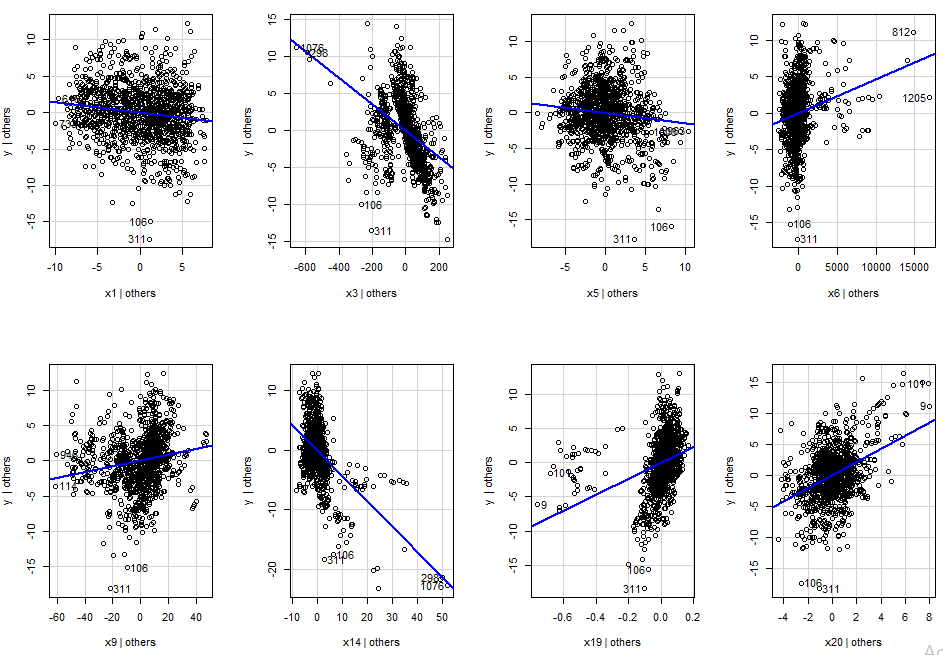
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***E: Diagnostic Plot of Model 4***

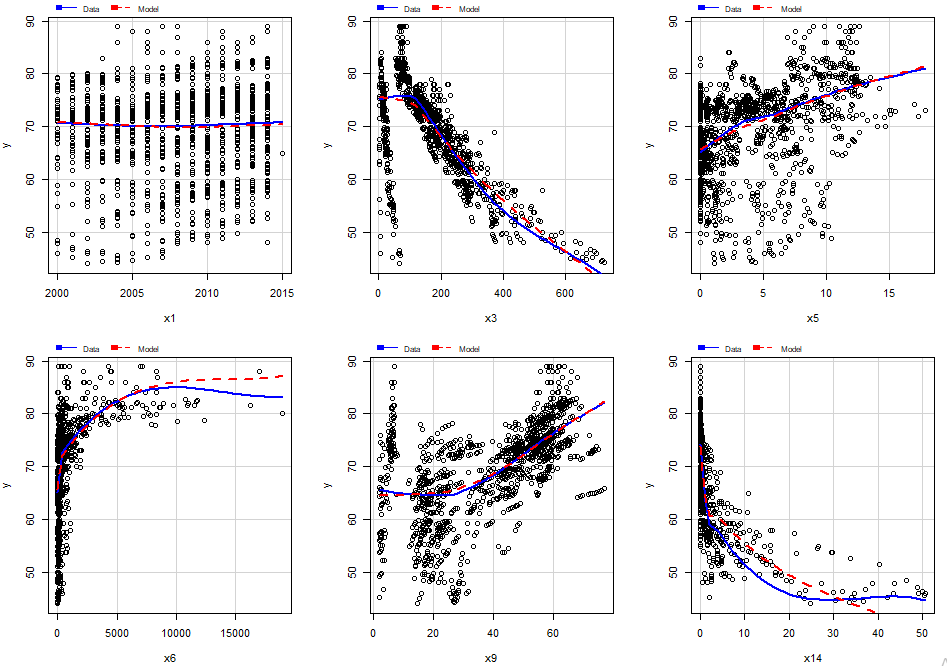
***A close up of a map

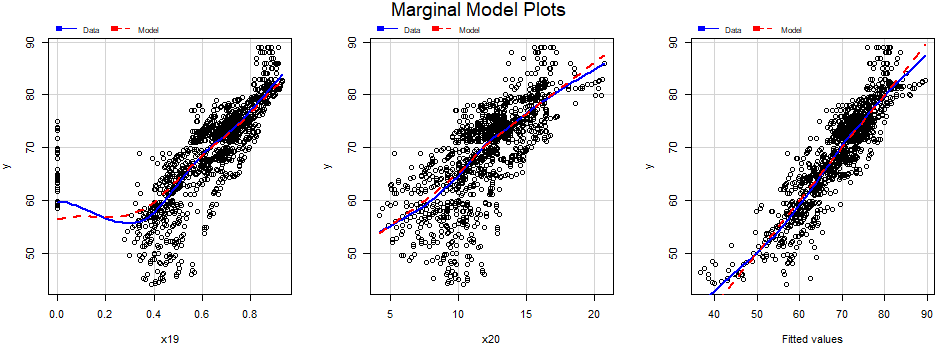
Description automatically generated***

***F: Added Variable Plot of Final Model***

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***G: Marginal Model Plot of Final Model***

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