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Boston Marathon Linear Regression Project

**CSCI 688**

Executive Summary

Each year, on Patriot’s Day, thousands of runners assemble at the start of the Boston Marathon and anticipate the sound of the gunfire, indicating the beginning of a trying 26.2 miles. The oldest annually held marathon, the Boston Marathon is a unique race in that competitors must qualify to earn their spot in the race (with the exception of a fraction of runners who did not qualify but bought entry through charity donations or other organizations). This makes the field ultra-competitive. However, the exclusiveness of the Boston Marathon lends itself to interesting results amongst participants: some come to set a PR (personal record), while others are content with merely qualifying and then “underperform.” It will be interesting to see where the breakeven point is between these categories. I will address the following questions in this study: 1. How can finish time be modeled given a set of predictor variables? Are there trends between groupings, called waves, of runners that side models can reveal?

In this study, I used historic race results from the 2017 Boston Marathon and created a model to predict an individual’s finish time based on a number of predictor variables including: age, first 5K pace (minutes per kilometer) of the race, first half marathon pace (minutes per kilometer) of the race, gender, and wave group (Elite, one, two, three, four). The response variable is the official time, which is the time that each individual completes the marathon in (net time, not gun time). I also created additional small models for each wave group to analyze trends and topics of interest. I used forward selection stepwise regression after comparing the results of similar methods to accomplish this.

The regression equation for my general (all waves) model is:

Y = 24.1 + -0.0609X1 – 22.314X2 + 66.460X3 – 6.829X4 – 7.996X6 – 5.332X7 – 2.543X8

I also made 5 smaller models to examine performance factors within each wave group and came up with the theory that most runners who are not elite run their first 5K of the race too quickly, which could give insight to improve their pacing strategy. I also found that as pace increases among runners, women are tending to run too quickly in the initial phase of the race. Moreover, as we analyze the wave groups, the slower groups are running the second half of their marathon slower relative to the first half of their marathon, which would correspond to a “positive split.” As we analyze faster wave groups like the Elite group and Wave one, there is an increasingly greater amount of “negative splits” among runners, which would correspond to a faster second half of the race. This strategy is more favorable as it allows a runner to economically expend energy. This study will highlight the process and methods taken along with visualizations that reveal these findings.

Abstract & Introduction

Predictor Variables:

X1: Age (integer)

X2: First 5K Pace (minutes per kilometer)

X3: First Half Marathon Pace (minutes per kilometer)

X4: Gender (Indicator Variable: 1 for Females; 0 for males)

X5: Wave: Elite (Indicator Variable: 1 for Elite Wave member; 0 otherwise)

X6: Wave: One (Indicator Variable: 1 for Wave One member; 0 otherwise)

X7: Wave: Two (Indicator Variable: 1 for Wave Two member; 0 otherwise)

X8: Wave: Three (Indicator Variable: 1 for Wave Three member; 0 otherwise)

Response Variable:

Y: Official Time (minutes)

\*Wave Four Members have values of 0 for indicator variables X5-X8 and they are considered the “base”. An unspecified amount of wave four runners are charity runners, which indicates that they did not qualify for the race but raised money which granted them entry. There is not enough data to determine which runners are charity runners.

**X1, Age**

With different ages comes different levels of experience. The more mature runners have most likely had experience on the course or have run multiple marathons. This would allow them to appropriately pace and not fall under the pressures of starting off too quickly.

**X2, First 5k Pace**

This predictor variable along with qualifying time will tell a lot about a runner’s performance. It is highly unlikely that the runner’s first 5k pace would be faster than the average 5k pace of their overall qualifying time.

**X3, First Half Marathon Pace**

One of the most interesting predictor variables in the model, the half marathon pace will give insight to the “negative split” factor of the runner’s time. It is generally accepted that the runners who run the second half of the marathon faster than the first half of the marathon do better with respect to their peers. This is called a “negative split.” A negative split is favorable and indicates an economic racing strategy, where the runner is less likely to “hit the wall” or burnout due to wasting too much energy initially.

**X4, Gender**

A close up of a map

Description automatically generatedGender is an important qualitative variable in the model because male and female athletes take different training approaches, and males are overall faster than females. This study reveals differences in pacing consistency between the genders, so it is an important valuable predictor variable.

It is also interesting to look at the distribution of females and males in the race in the density graph on the right. This graph is standardized, so it is easy to see that the mean finish time for women is slightly slower than the mean finish time for men. It is also important to note that there are more males included in the study than there are females. The dataset that I used includes 11972 females and 14438 males, which would be a male/female ratio of about 5:6.

***A note on Qualifying Time-***

The Boston Athletic Association determines qualifying time for each gender-age group division in order to limit the field and ensure that the race will be competitive. This determines the bib assignment, which then determines the wave assignment. The table below displays the assignment criteria. Waves are determined by bib number which is determined by qualifying time cutoff zones. This means that the runners first achieve entry to the race if they meet qualifying criteria for their age group (Qualifying Time Table), and then, they are placed into waves based on the best marathon time they achieved that granted them entry to the Boston Marathon (which is referred to as a “BQ” for Boston-Qualify). The “Qualifying Time Interval” was determined by the mathematicians at the Boston Athletics Association in order to create optimal wave size to allow for maximum space on the road while promoting similar paces amongst runners in the wave. Furthermore, while this study does not incorporate it, each wave is broken up into separate corrals for further groupings of runners according to their BQ times. This strategy promotes safety on the roads and a collaborative initiative amongst runners in the corrals.

**Wave Assignment Qualifying Times**

|  |  |  |
| --- | --- | --- |
| **Bib Range** | **“BQ” Time Interval** | **Wave** |
| 0-100 | 2:25:21 | Elite |
| 101-7,700 | 2:25:21 - 3:10:43 | 1 |
| 8,000-15,600 | 3:10:44 - 3:29:27 | 2 |
| 16,000-23,600 | 3:29:28 - 3:57:18 | 3 |
| 24,000-32,500 | 3:57:19 | 4 |

|  |  |  |
| --- | --- | --- |
| **Age Group** | **MEN** | **WOMEN** |
| 18-34 | 3:00 | 3:30 |
| 35-39 | 3:05 | 3:35 |
| 40-44 | 3:10 | 3:40 |
| 45-49 | 3:20 | 3:50 |
| 50-54 | 3:25 | 3:55 |
| 55-59 | 3:35 | 4:05 |
| 60-64 | 3:50 | 4:20 |
| 65-69 | 4:05 | 4:35 |
| 70-74 | 4:20 | 4:50 |
| 75-79 | 4:35 | 5:05 |
| >= 80 | 4:50 | 5:20 |

**X5, X6, X7, and X8** correspond to indicator variables based on placement in the specified wave group (elite, one, two three). A value of “1” denotes that the runner is part of the specified wave group. Wave four is the base case and does not require an indicator variable as all other wave indicator variables will take on value “0”.

INITIAL DATA CLEANING PROCESS

I used Python for most of my project, in addition to R and Minitab and have included the files, but I will describe here the process that I used to clean the data for further clarity:

- Elite Bib numbers below 101 were assigned to “elite” wave. There were repeat Bib numbers as Male competitors in the elite category had assignments XX while Female competitors in the elite category had assignments XXF. Therefore, I immediately grouped them all in the elite category to reduce any misunderstandings

-Assigned wave/bib color based on research and memo from Boston Athletic Association

-After Bib number to wave assignment was complete, I no longer required the Bib number variable and dropped it from any further analysis

-Dropped any row with an NA value for any category as it would be an incomplete data point

-Split the data into training and test data. Method for accomplishing this: I first divided the data on category of gender. This left me with a dataframe for female runners and male runners. I shuffled the entries and then divided each subset into two additional subsets. I stay consistent with the seed used by the random algorithm to shuffle my dataframes so that each time I run my program, I will be using the same two final sets for training and validation. At that point, I had 4 subsets of shuffled entries split between genders (Females A, Females B, Males A, Males B). I then concatenated Females A with Males A and concatenated Females B with Males B. This left me with 2 dataframes. Finally, I sorted based on Official Time so that I have 2 complete datasets for training and validation: A and B.

-The last step in my data cleaning was to reformat numeric information held in string data type to a numeric data type for analytical purposes.

-I repeated this process after dividing the dataset into 5 subsets based on wave group so that I could have training and validation datasets, A and B, for my side study (wave performance analysis).

-Finally, I exported these twelve final sets of data to CSVs in order to use Minitab in the later part of my model development.

DATA STATISTICAL SUMMARY

Descriptive Statistics:

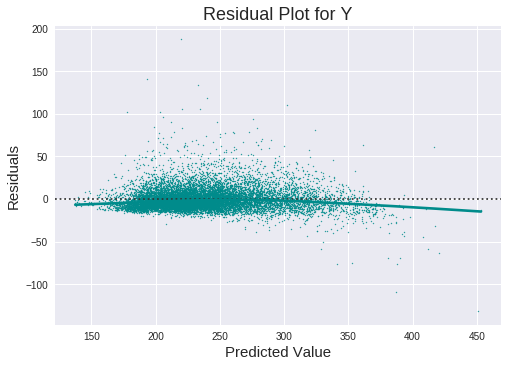
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It is important to note that the mean time in the 2017 Boston Marathon was 3 hours and 58 minutes, which is above the median qualifying time (refer to qualifying time table in Abstract). This can be attributed to the challenging elevation profile of the course. It is common for runners to choose a “fast and flat” race in order to accomplish a “BQ” time, which has a more favorable elevation profile than the Boston Marathon course.

**Normality of Residuals:**

![A close up of a newspaper

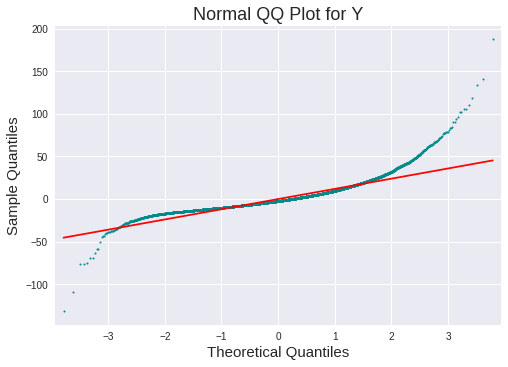
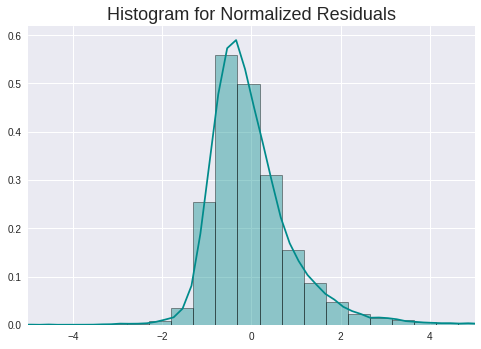
Description automatically 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srvTriUypAzfddCfu+/wBPy7jxz4tu/Cum250rRbnWdQvJTDb28A4DYzuYjJCj6fl1oA6iivEvhrL4ml+N2rt40dP7TbSlcwxtlIEZ1IQY4GM9ifqa6742X72fws1CGHmW+eO1QepZxkfkDQB39FeM2nwd+GH2iHTbnUlbVdiiS2GpqJS2OfkznrXqfh7QLLwxoNvpGlCRbS2BEYkbcwySev1NAGnRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBz3j/AP5J3r//AGD5v/QDXy38P/BfiL4gK+jWFy9to0EpuLiVx+6SQqAOP4mIAAHYZPFfVHje3mu/Aet29rDJPNLYypHHGpZnYqcAAck1wX7PWjapovg/U4dZ0270+V7/AHpHdwNEzL5ajIDAZGRQByvwQ8VXPhXxRe+AfEX7ktOwt938Ew6r9GAyPf613Px//wCSSXn/AF8w/wDodcx8dvh9qN3qdl4r8K2dzcXyssdzHZxM8mV5SQBeeMYJ+ldDqdlrXxP+CEtne6dc6drgVd0F5C0HmSxkHI3AcMO/QE+1AGr8GP8Akj2i/wDXOT/0Y1eb/s9f8lA8Uf8AXM/+jTVnwLr3xH0DwyvhC28CXL3MJdINQuWaKGIMScsSu18Eno3NSfAXwzrugeMvEB13TLy2DRbFuJrd0jmYSclWYDOev0oA5n4c+HNO8R/HnXY9YtY7u2tp7ufyJV3I7ebtG4Hgj5jwa9A+Ofh3RNO+FMsmn6Pp9rJbzxLC0FqiGIM+WCkDgHvjrWV8JfD+s6b8ZPFF7qOk31paTm48qee2dI5Mz5G1iMHI54rvfi34bvvFXw3v9O0mPzbzckscWQN+1gSBnvjNAHK/D1LDw38Bf+EnstMtF1OHT7iRrpYFEsmGbAZ8ZI4HBPasD4EeENJ8T2Gq+JPE9pFq97JdGIfbEEqjgMzbW4JJbr2xW38J59cuvDJ8D+JPCF/p9hFaTRvf3COiybm+6FZRzhjyCelYfh+x8e/Bi/v7Oz8NzeJtFuZN8TWhO7PQNhQxU4wCCuOODQBS+IenW/wy+MOg6r4UjWxjvcGW1i4jI3hXUL2Ug9OgI4p3xSsb/wAP/F0eLNa8PHxBoJiTakikxKAuNrHBCkHJAYYOa19P8IeK/ib8RLTxP410s6LpVjtNvZSH94207guDz15JIHoBWx44HxL8P+OYtd8Pm413QlOTpkRA2ZGCpVRlvUN82O/uActp2u/Bvxf4gsJ7jTZvDl5CwEccaC3hkfIIJaLoQejHb71p/tNY/wCEb0HByPtUmDnP8ArnvEuh+J/ixq1lHZ/Dz/hFxG5Nxe3KFGcHHLEohYD0AJrqfj14b1W+8I+HbHRdPvdUe0kKP9mt2lYARgBiFBxnFAEXxW8O63r3wj8MvolvNeR2cMUlxbQgszAxABto5OOenrXLQeNfhbrWjJo3ibwa2gzrtR7qxt0LIV6kuAH5xyCGr0rxdonja6+G+jL4Kv57G9trSNbmzBWJ5RsHAYjKsCOmR371xXiLxB4x8X+HW0HUvhVPJqjxCH+05oW2o3QupZAFPvvxQB7D4NtvD6+C7S38Kz/adHKMsLecz5BJyMscjnPHGPQU/wAMeCPD3g1bhfDen/YhclTKPOkk3Yzj77HHU9KwvhZ4R1DwL8PPsOoFXv3d7lokO5UYgYTI69BnHc034YeKvF/ieLUW8Z6D/ZDQMgtx9jmg8wHO7/WE5xgdPWgDvaKKKACiiigAooooAKKKKAPLPiB/yW34e/79x/IU/wDaCeSP4Xl4wCEvoWYEcdTj9cVP440vULv4weBb21sbme1tXn+0TxwsyQ5AxuYDC5966zxr4Yi8YeD7/RJnERuU/dyEZ2ODlTj6gUAcVa/CKy8TaPBqXjHU9RvdYuYll8+K4KJakjIWJBwAPfNWvhTrWqi/1/wjr149/c6DcKkV3JkvJE2du49zx+tZ2l+NvGvhnR4tD1rwJqep6jaxiGC7sfnt7gAYVmcA7OMZ/kK3vhl4U1TRY9V1vxP5a61rlx59xFGciFRnamRwSMn9KAOy1Lf/AGTd+X9/yH2/Xaa8G+EHgk+NvAwXxJf3R0a1nkig022lMSyOTuZ5SOWOWwB2xXrvhHxLqXiUakNW8OXWiC0nMMX2nd/pK8/Ou5F4+mevWuG06DxJ8JdX1K1s/D934h8NX1w1zbnTxvntWbqpTqR09uM57UANsLO5+FnxR0fQdOv7q58O68rpHa3L7/ssq/3T6cj8+ema9gryzRNL8QeOfiNZeLfEekSaJpmkxsun2Vwf30jtwXYfw/Q+g69a9ToA8u+E/wDyOfj/AP7C/wDVqn+IHh7XrHxlpnjnwjZrqN3ZQm3vLDdtaeE5+6fUZPv04PSn/DLS7+w8WeN5r6xubaK61TzIHmhZFlX5vmUkfMPcVd8fQeLLDWNK8ReExPqENluS90dJyguEP8QHQsMnsT04NAHLeMvFfiXxf4C1W1t/Ct94fsltXkvrzVh5eFUZKRocFi2MZ4ArtPhQjR/Cjw8HGD9jU/gSSP0Ncjr2p+LPihYDw7p3hfUfD2nXDL/aF/qi+WwjByVRDy2cdf5da9V0+xg0zTbaxtF2wW0SxRj0VRgfyoAsUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB84eKGNv+1bYvfECM3VtsLdMFAB+tfR9eW/F/4WXHjMW+s+HpFi1qzXaFZtnnqDkAN/CwOcH37Vxn/CcfGy1s/wCx38MyyXAXyxff2c7v6bt4by8++KAPbLPxdoF/rs+jWmrW0mpW7FJLXfhwR1wD1x7ZrwvQ7WH4m/tDar/wkim5stNMoitXPybY3CKuPTPzEdzXafB34X6h4XurrxF4qZW1m8BCx7w5iDHLFmHBYn0z9eayPEvgrxV4J+Js3jbwPYDVba6LNdWSn5xu++uOpBPIIyQe3qAJ8dPAuhaP4Rg8QaBp9vpN7Z3Ma7rKMQhwx9FwMg4IPWsX4q61ceIfgP4R1O+O65nuF81v7zCNwT+OM1oeJG+IHxiFpo58KzeGdKjmElzLelgSRxn5lUkDJwAOvU1o/Gjwddw/DHw/oXhjTbzUFsLlUCW0DSuFEbDcQoPUnr6mgDQ8NfDXwzN8GInutItZ767003El5JGGlEjJuBVzyoHHA9K5L4G6vc6X8M/GNzC5Js0M8S9lfy25/QflXsHh20uYPhXYWk1vLHcppSxtC6EOreXjaV65z2rzf4DeFdRtvDPiTT/EWlXtgl8Vj23Vu8RdSjA43AZ60AZnwA8I6N4j07V9c8Q2EGqXX2ryR9sjEqj5QzNhsgkluvtWN4k8Naf4W/aQ0W00iIQWs9zbXCwr92Ms+CB6DIJx71r+GLbx38G9Y1DTLXwtc+JNLu5Q0UlpuwSOA25VbbxwQw7dfWne+H/HGp/GfQfEWv6FcRi4uIZWS2iaWOziV8BHcDAIAyee/bpQB9IUV55498XeM9B8U6XZeF/D/wDaVhcKpubj7FNN5RL4PzIwA455r0OgDxj9pj/kSdJ/7CP/ALTeuH8XeGLvwroXhL4heGx5Tra2/wBq2DhZAgw59mHyn/69ei/tC6NqmteD9Mh0bTbvUJUv97x2kDSsq+WwyQoOBk12GgaDHqXwq07RNbtXVJtNjgnhlUqyHYAQQeQQfyIoA8Nu/E9n4w+PnhTWbAjZOlt5iZ5icFtyn6Gtr4vXE3in4z6F4PuZnj01Wh3opxuZzlm+u3genNcz4b+HHiTwz8ZdOhl0i/nsbPUFIv47VzC0echt4GBx154NenfFv4dazrGuad4t8HbX1fT9oaAsFMgVtyspOBkcgg9RQBo+Ovhb4Tl+H+oR2Gi2VjcWdq8sFzBEEkDIuRuYcsDjnJNUf2e/EF5rPgCa1v5GlOm3PkROxyfLKhgPwyR9MVia34x+JXjLQpvDdn4Bu9MubpPJub2Ysse08NtLKoXP+83Fdh4Z8K3nww+E97DpMS6jrSQyXTIsbOJp9vChVwzDgDjBNAHoVFcf8NvEPiXxJ4fnuvGGkf2TeJcGNIfs0kG5NoO7bISTyTz04rsKACiiigAooooAKKKKACvI7iz8SfDTx5q+raNoVxr+ga3IJ5obIZnt5e5CgEkcn29xjn1yvNNXvfGHgrxzf6nFp2peJvDuoqpW3tZDJLZOOoWP0PPTjpzxQBxfxT1LxD4o0/Rb6+0WXQ9Mi1OJLa2vCPtNzK38RQfcAAIweTmvflGFAPpXlcFh4h+JXjHStV17RZtB8P6NJ9ogtbs/v7qbszL/AAgY7/rnj1WgDy7Rv+Tltf8A+wRF/NK6T4geBV8e6dY2MupS2ENtdLcP5Ue5pMDGAcjb1PPNYuk6Xfx/tB63qMljcpYy6XHHHdNCwidgUyofGCeOma0viTovia/sbDUfBd9LFqGmziY2YnMcd4nGUYZAPTv6mgCprPwZ8G3vh6WytdJjs7hYyYbyJm81XxwxYnLc9c5o+C3iC+1/4eRHVZWnurGd7RpmOTIFxgk9zggZ9qyr74g+NNZ0x9L0X4f6tY6tOpia4vBst4CeCwcgBsdun410nhfw8/w4+GjWlpA+qXtrDJcSRxZ3XMxGSq8E89BwaAOxorH8K6zeeIPDlvqOpaRPo1zNu32VxnfHhiBnKqecZ6d62KACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKK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fit an Ordinary Least Squares (OLS) Regression Model as a starting point and to accomplish residual analysis, identification of outliers, creation of correlation matrix and plots, insight of potential transforms, and creation of additional plots for exploratory purposes.

On the right is the initial OLS Model output, which is a benchmark and starting point to the model which I develop. Below is residual plot.

**Analysis of Variance**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source** | **DF** | **Adj SS** | **Adj MS** | **F-Value** | **P-Value** |
| Regression | 8 | 21533226 | 2691653 | 16147.44 | 0.000 |
| X1, Age | 1 | 3020 | 3020 | 18.12 | 0.000 |
| X2, 5K Pace | 1 | 204531 | 204531 | 1227.00 | 0.000 |
| X3, Half Pace | 1 | 3209462 | 3209462 | 19253.81 | 0.000 |
| X4, Gender | 1 | 93159 | 93159 | 558.87 | 0.000 |
| X5, Wave: Elite | 1 | 6818 | 6818 | 40.90 | 0.000 |
| X6, Wave: One | 1 | 41068 | 41068 | 246.37 | 0.000 |
| X7, Wave: Two | 1 | 23812 | 23812 | 142.85 | 0.000 |
| X8, Wave: Three | 1 | 6612 | 6612 | 39.67 | 0.000 |
| Error | 13174 | 2196004 | 167 |  |  |
| Lack-of-Fit | 13158 | 2194858 | 167 | 2.33 | 0.024 |
| Pure Error | 16 | 1147 | 72 |  |  |
| Total | 13182 | 23729231 |  |  |  |

I First Plotted residual plot for Y, histogram, and Normal QQ Plot for Y. The results showed heavier variance along the tails, which is expected and understandable as the early and late waves are more extreme (elite and wave four) in their performances. Kurtosis is 16.619, which indicates leptokurtic distributed data. This gives insight that a large amount of variance in the model is due to the infrequent extremes. After an ln(Y) transformation, the normality of the residuals seemed to decrease, R2decreased as well



I then Transformed Y to ln(Y). Below is the OLS Model output:

![A close up of text on a white background

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEBIAEgAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGRhbmllbGxlIGhleW1hbm4AAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMzMwAAkpIAAgAAAAMzMwAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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-By looking at the P values associated with the predictor variables, this ln(Y) transformation would hint towards dropping X1, Age, and X8, Wave Three, from the model due to the p value exceeding an alpha level of .05. Also, in this model, R2 ­decreased from .907 to .896.

-Moreover, the residual plot for ln(Y) transformed OLS looks less linear and more curved in form, which is not desirable.

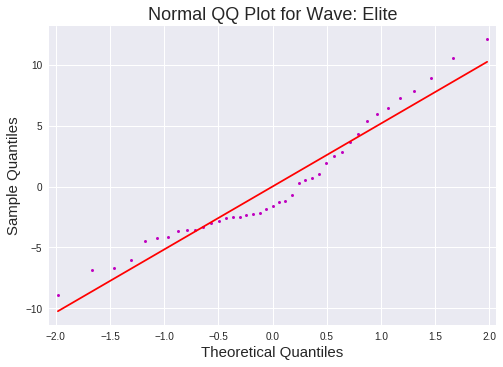
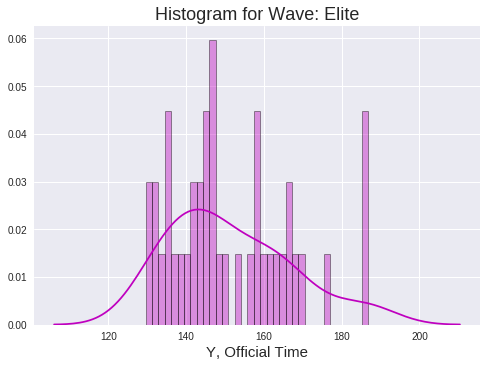
-The histogram reveals semi constant variance, but greater variance along the tails. This could be due to the following: 1) wave four’s charity runners who did not qualify to run; 2) the elite wave’s small group of elite runners who have an unnatural talent and facility compared to the general population.

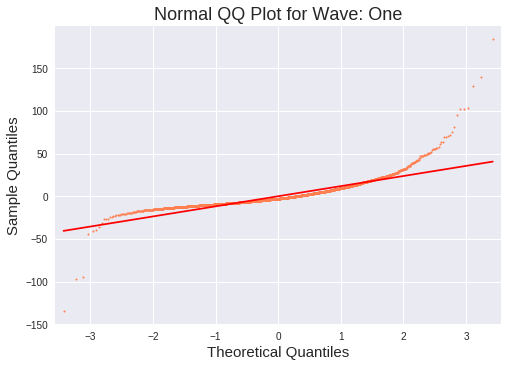
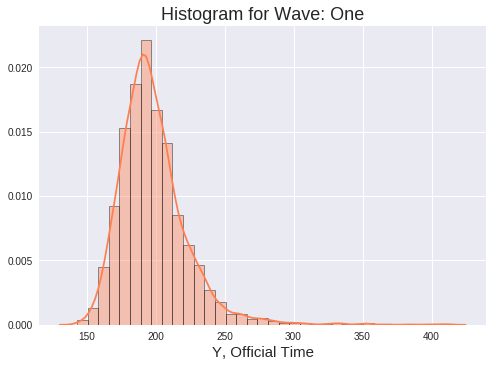
­­A close up of a mans face

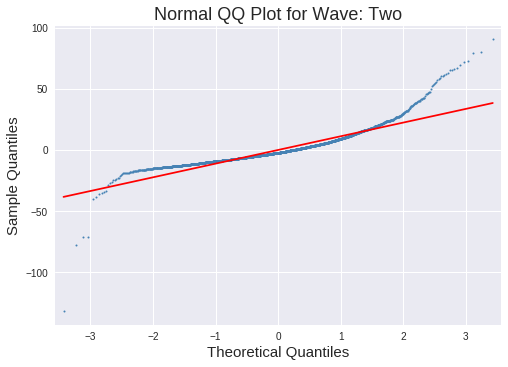
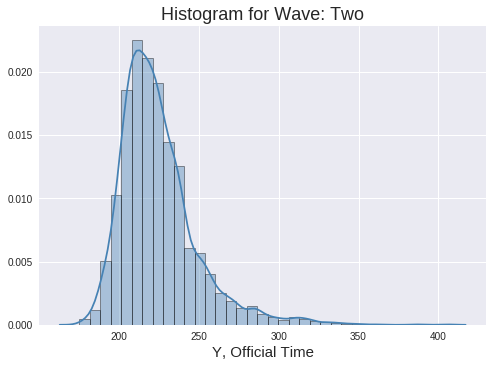
Description automatically generatedA close up of text on a white background

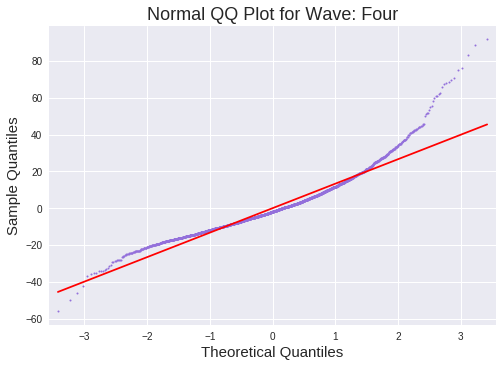
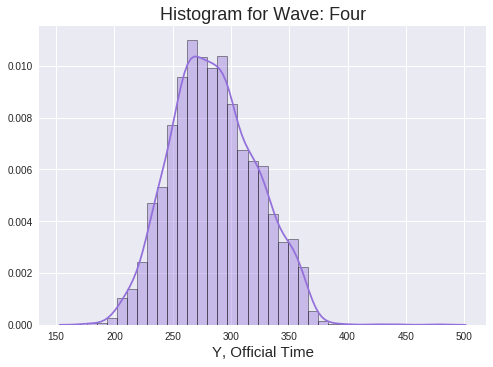
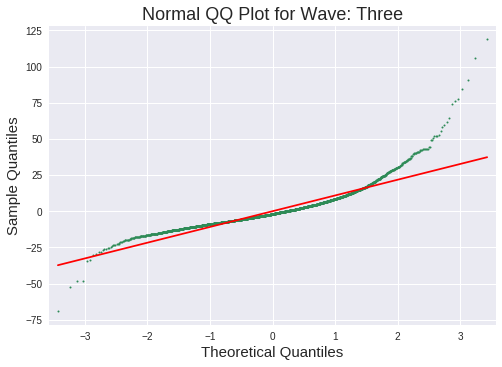
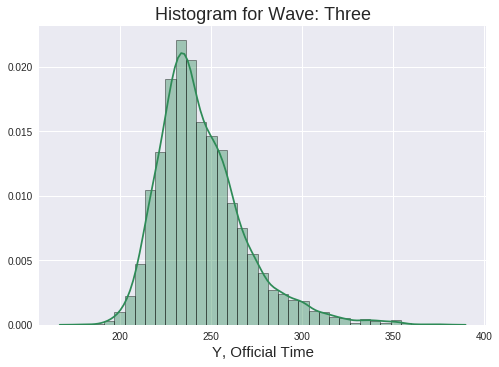
Description automatically generated

Therefore, I decided to build my model without the Y transform.

In the second part of my study, I broke the dataset into 5 groups based on waves and built 5 miniature models accordingly. The plots below show visualizations of the distribution of the data, and the appendix contains more information on the OLS details from the initial regression. 







We can note from the wave histograms and normal plots that they all have some slight skewness, with the exception of wave 4. We can also note that the elite wave is not particularly normally distributed as the field is so small. The goal of these smaller models is to find relationships between the coefficients, so there is not too much concern, as the main model is more robust and will be used as the main tool to

Correlation Matrix

A screenshot of a cell phone

Description automatically generated

Heatmap of Correlation Matrix

The heatmap shows the correlations between the variables. The more extreme towards blue and yellow hues, the higher the correlation (positive or negative).

A screenshot of a cell phone

Description automatically generated

MODEL DEVELOPMENT AND ANALYSIS

I conducted an initial OLS for my general model as well as my five subset wave models, followed by a thorough outlier detection and influencing point procedure. The python code in the appendix displays the procedure, which eliminates data points with ti values greater than t value for test for Bonferroni simultaneous test procedure with a family significance level of alpha = .10, hii value greater than 3\*(p/n), DFFITSi greater than 4\*sqrt(p/n). I had to change the cutoff points for the leverages hii from the traditional 2\*(p/n) to 3\*(p/n) and DFFITS from the traditional 2\*sqrt(p/n) due to large number of points that violated the criteria. The output below shows how each of the 6 models’ datasets were altered as a result of my outlier and leverage detection and reduction process:

GENERAL MODELA screenshot of a cell phone

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WAVE ELITE MODEL

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WAVE ONE MODEL

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WAVE TWO MODEL

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WAVE THREE MODEL

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WAVE FOUR MODEL

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Description automatically generated

It is fascinating that wave four has the least amount of outliers for the normally distributed datasubsets (the elite model does not have enough datapoints to have significant outliers). Initially, wave four seemed to be a potentially problematic wave group as it is mixed with both qualifiers and charity runners (non-qualifiers). However, it is in fact the most normally distributed group.

Initially, I conducted best subsets with interaction terms and second order terms. However, for the extra 10+ variables added to the model, there was no increase in R2, and almost a twofold increase in selection criteria such as PRESS, AIC, and BIC. Therefore, I decided to stick with a simpler, strictly first order model (and achieve an R2 of the same quality). For such a large dataset, this is sensible as it is less expensive to process in terms of time and resources.

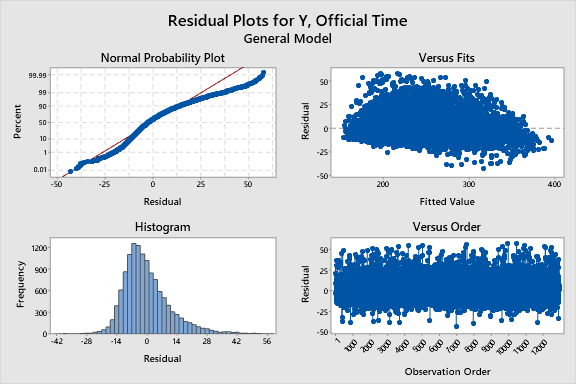
For each model (the general model and the 5 wave subset models), I started my analysis by using the exported clean datasets from python and imported them to Minitab for a detailed regression model building environment. I started with a standard regression model best fit, followed by best subsets, stepwise, forward selection (alpha to enter = .25), and backward elimination (alpha to remove = .1). I then put the “B” data file (the validation data set that was the B partition of the dataset) through the regression model selected from the cleaned “A” data file and created a composite results table (in the results section) based on my findings.

The regression model for my general model, attained from using forward selection with alpha = .25, led me to selecting the model with equation:

Y = 24.1 + -0.0609X1 – 22.314X2 + 66.460X3 – 6.829X4 – 7.996X6 – 5.332X7 – 2.543X8

As the outlier and influence detection and reduction method deleted all of the elites from the general model, there is no need for X5, the indicator of the elite wave.

The Residual Plots below show the relatively normally distributed residuals. Refer to results section for findings and analysis of regression results. The appendix contains each smaller model’s final regression analysis of the chosen model. The minitab file details the process of regressions to attain results in the results table.



***A side observation:***

A close up of a map

Description automatically generatedAn interesting observation is the link between the first 5K pace (X2) and the first half marathon pace (X3). Ideally, depending on racing strategy, one would think that the first 5K pace should not be lower (meaning faster) than the first half marathon pace. In smaller races that are not well organized, this strategy may be beneficial as a faster runner may need to stride ahead of slower runners to avoid being confined in an unfavorable pace pack. However, in an organized race like the Boston Marathon, where runners are organized according into corrals and waves, there is no need to speed up in the beginning to achieve a good positioning. Nonetheless, the data from the 2017 Boston Marathon shows that in fact, runners will tend to run the first 5K at a faster speed than their first half marathon of the race.

From the plot below, and our knowledge that slope of one between X2, 5K pace, and X3, half marathon pace, would indicate constant speed, we can understand more about gender impact on consistency in pacing. It is clear that as the trendlines overlap each other until the half pace of 7:30, the females and males are at the same pace ratio. However, after average pace of 7:30 per km, it is evident that females are slower relative to their first 5K pace, which indicated lack of economic efficiency in race strategy.

RESULTS

Results table incorporating the findings of regression models: (models were selected based on forward selection regression process)



Findings:

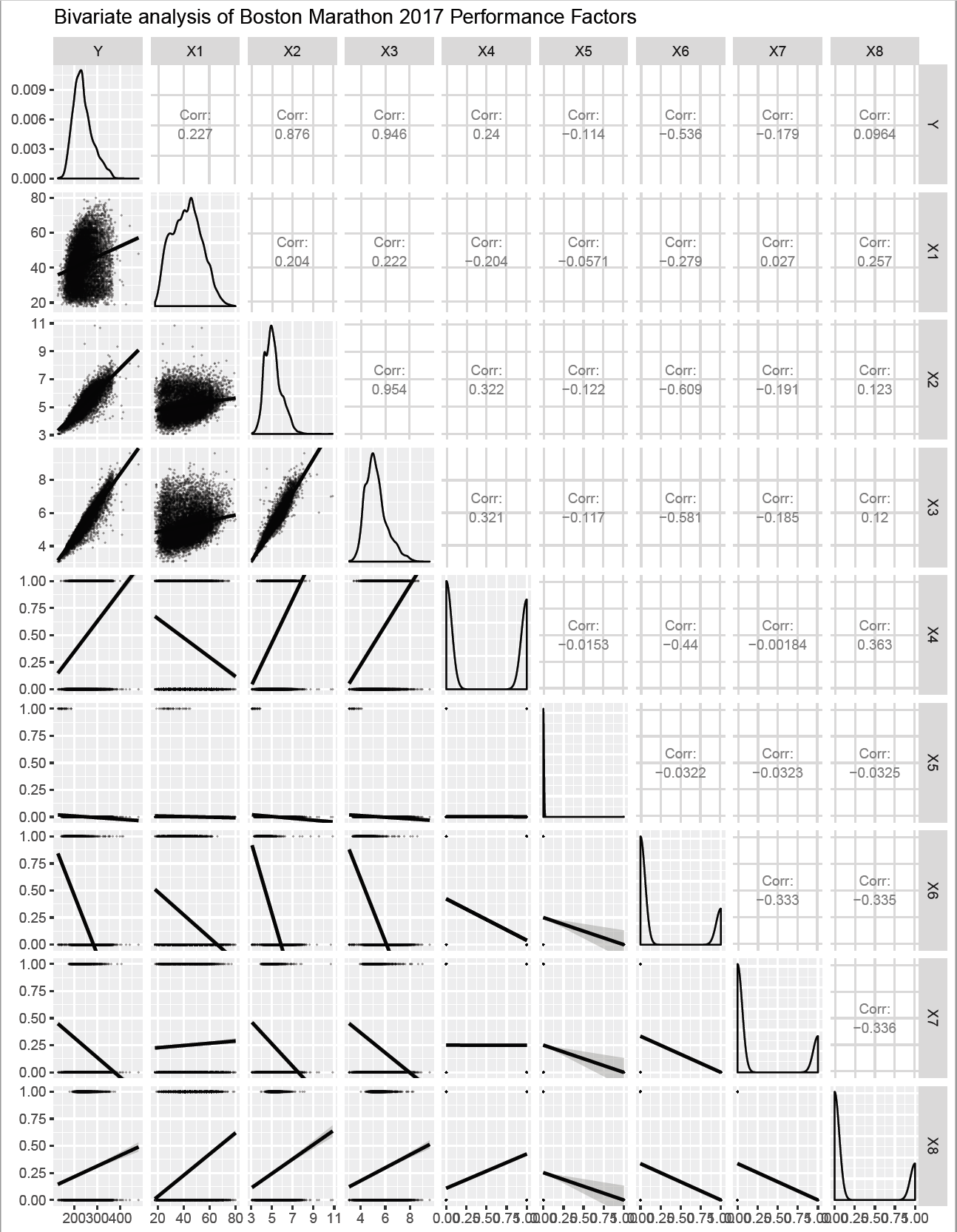
1. As we move from fast to slow wave group, the ratio of coefficient of 5K pace to half marathon pace is smaller. This can be interpreted that the faster the wave, the better they are at keeping consistent 5K and half pace.
2. The elite group and group 1 have the smallest B0 coefficients. This can be interpreted as a negative split if the ratio of 5K to half marathon pace is greater than ½.
3. The general model has a good R2 value (92.6), which held up at 90.6 after running the validation data through the model. Moreover, the other models have consistent selection criteria between the training and validation sets. This supports strong models.
4. The coefficient of gender is negative. Gender take value 1 if female and 0 if male. Given that overall times for female are slower than males (so greater response value of Y, official time in minutes), this coefficient is difficult to interpret as we only see crossover point in performance of women’s pacing after the 7:30 minute/km pace range. This was shown earlier in a scatter plot of the interesting finding.
5. The training and validation sets have parameter coefficients and errors mostly within confidence intervals produced by the regression model (refer to Minitab regression model outputs and appendix for confidence intervals). Although in the wave one validation model the constant b0 changes sign, the values are contained in the model’s intervals, so this is acceptable.

APPENDIX

Sources from Abstract:

1. <https://myemail.constantcontact.com/2017-Boston-Marathon---Participant-News.html?soid=1102184342553&aid=Rigf1jDJ2IE>
2. <http://archive.boston.com/sports/marathon/articles/2011/02/17/marathon_qualifying_is_revised/>
3. <https://www.baa.org/races/boston-marathon/enter/qualify>

A close up of a map

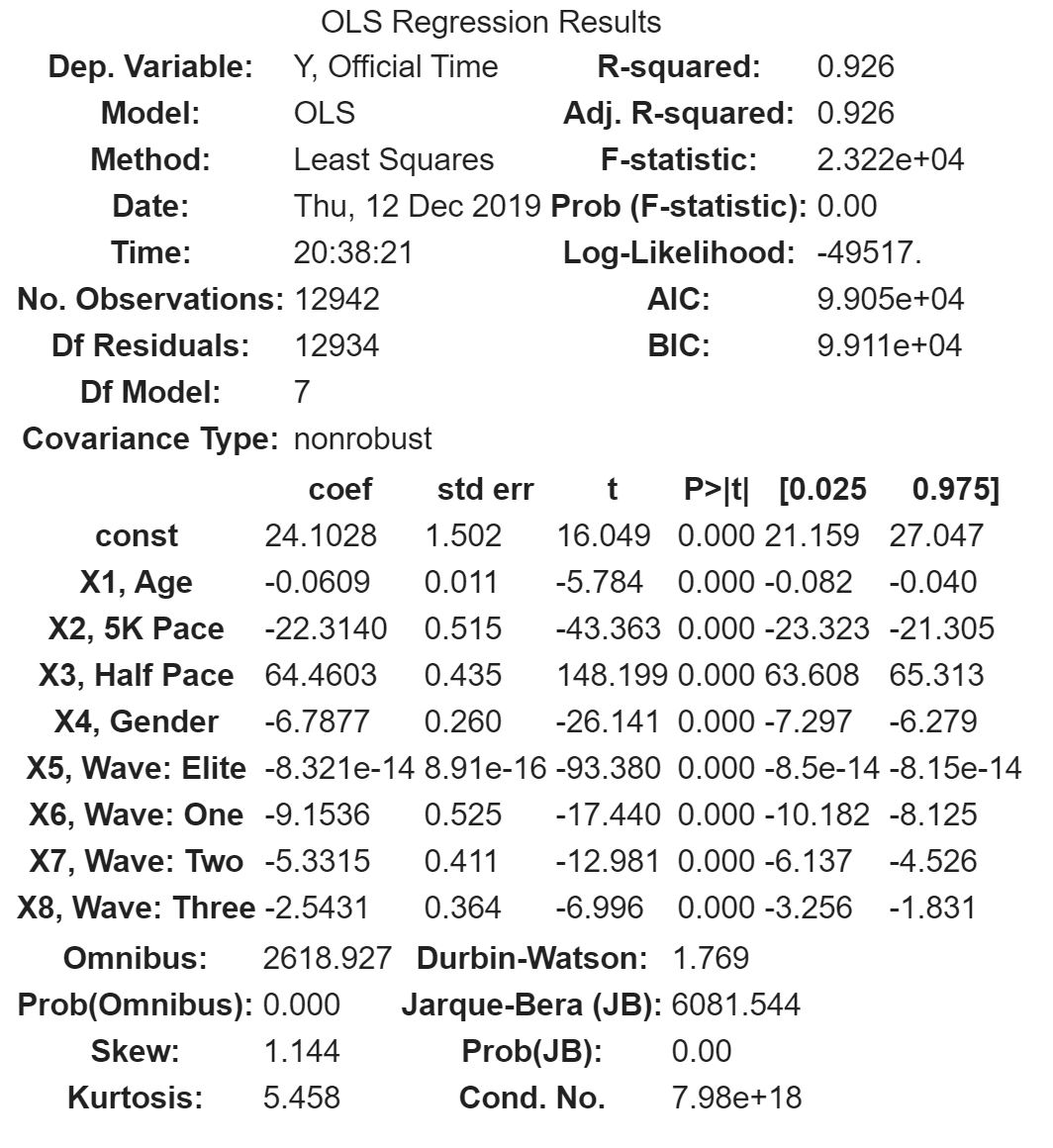
Description automatically generated

Regression Models:

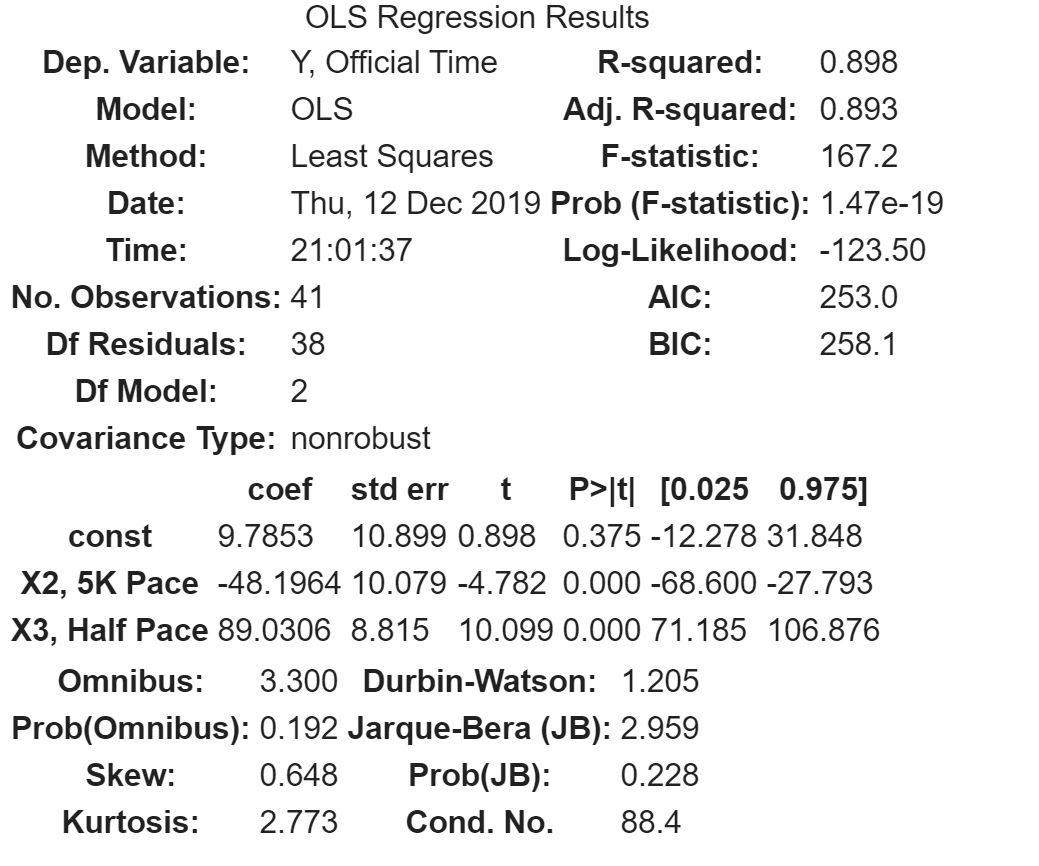
GENERAL MODEL

A close up of a map

Description automatically generated



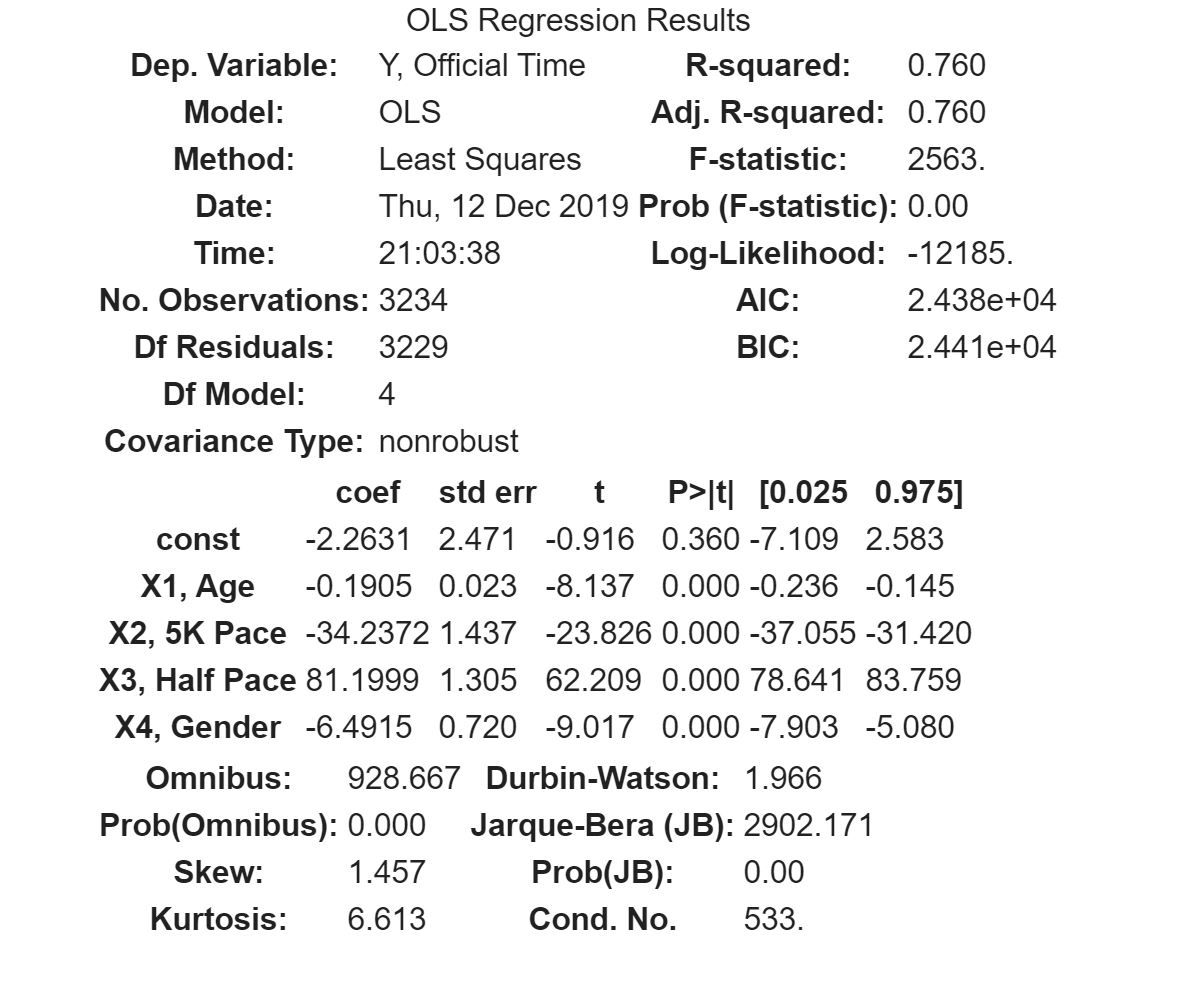
WAVE ELITE



A close up of a map

Description automatically generated

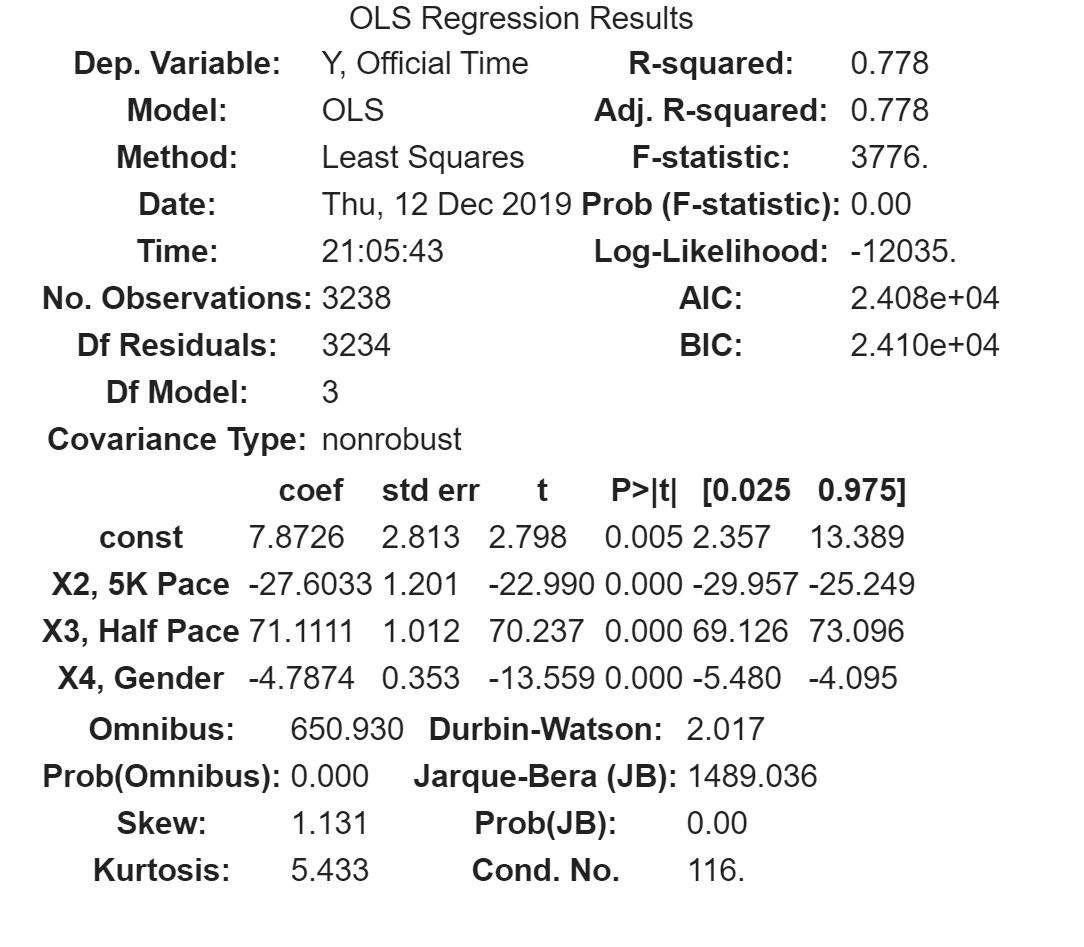
WAVE 1



A close up of a map

Description automatically generated

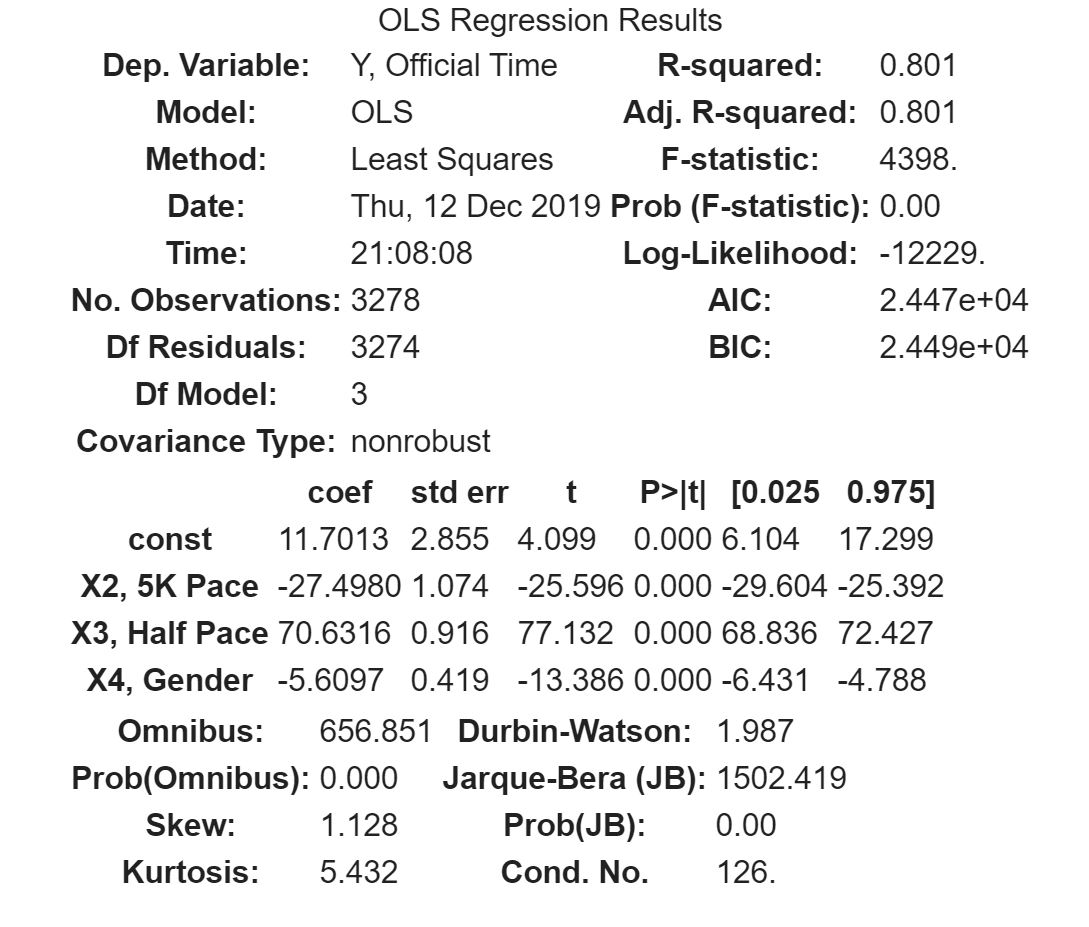
WAVE 2



A close up of a map

Description automatically generated

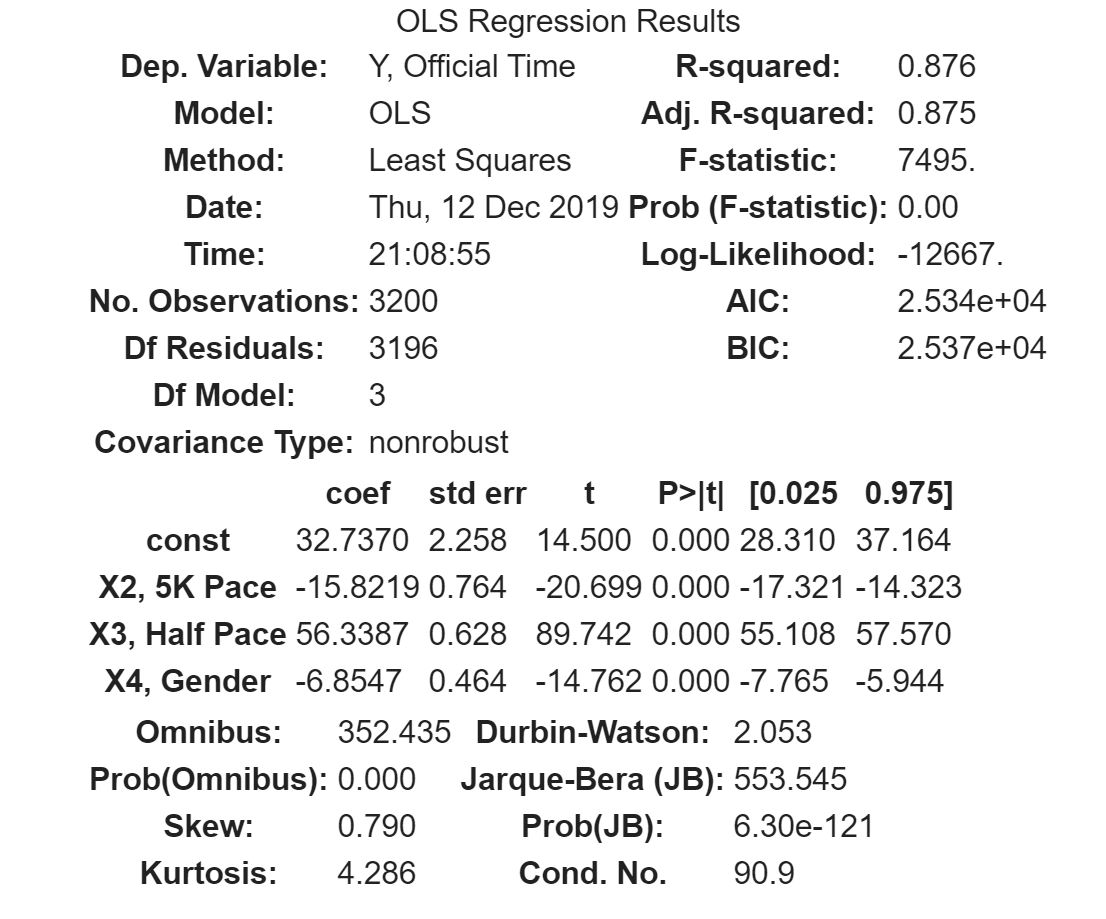
WAVE 3



A screenshot of a cell phone

Description automatically generated

WAVE 4



A close up of a map

Description automatically generated

Python Code

**Python Packages Import**

"""

#initial statements for numpy and pandas packages

import math

import numpy as np

import pandas as pd

import csv

import seaborn as sns

import scipy as sp

import statsmodels.api as sm

from statsmodels.formula.api import ols

import matplotlib.pyplot as plt

import matplotlib as mpl

from mpl\_toolkits.mplot3d import Axes3D

import statsmodels.graphics.api as smg

import random

from sklearn.utils import shuffle

**Reading in Data File**

from google.colab import files

uploaded = files.upload()

#boston\_data = pd.read\_csv(r'C:\\Users\\dheym\\OneDrive\\Documents\\WilliamMary19-20\\LinearRegression\\marathon\_results\_2017.csv\\marathon\_results\_2017.csv')

boston\_data= pd.read\_csv('marathon\_results\_2017\_best.csv')

#boston\_data.head(100)

#Creation of dataframe only incorporating the variables that I am using in my model

boston\_data\_s = boston\_data.loc[:,['Bib','M/F', 'Age', 'X2, 5K Pace', 'X3, Half Pace', 'Y, Official Time']]

#1 for Female and 0 for Male

boston\_data\_s['X4, Gender'] = np.where(boston\_data\_s['M/F']=='F', 1, 0)

# don't need this- if female X4 = 0, then it is a male

#boston\_data\_s['X5, Male'] = np.where(boston\_data\_s['M/F']=='M', 1, 0)

boston\_data\_s['X5, Wave: Elite'] = np.where(boston\_data\_s['Bib']<=100, 1, 0)

boston\_data\_s['X6, Wave: One'] = np.where(((boston\_data\_s['Bib']<=7700) & (boston\_data\_s['Bib']>=100)) == True, 1, 0)

boston\_data\_s['X7, Wave: Two'] = np.where(((boston\_data\_s['Bib']<=15600) & (boston\_data\_s['Bib'] >= 8000)) == True, 1, 0)

boston\_data\_s['X8, Wave: Three'] = np.where(((boston\_data\_s['Bib']<=23600) & (boston\_data\_s['Bib'] >= 16000)) == True, 1, 0)

# don't need this - case when all other indicator variables = 0

#boston\_data\_s['X10, Wave: Four'] = np.where(((boston\_data\_s['Bib']<=32500) & (boston\_data\_s['Bib'] >= 24000)) == True, 1, 0)

#cleaning data types

#Note: Now, 'Bib' and 'M/F' are not needed as waves take on indicator variables and gender also takes on indicator variable

boston\_data\_s.rename(columns={'Age': 'X1, Age'}, inplace=True)

#boston\_data\_s.sample(10)

**Data Cleaning and Sample Selection**

#Splitting Data into training and test data before creation of model

#set seed in random\_state argument so that we consistently choose to start at this seed every time

#this code is run so that that training data for model building will be consistent

#get subsets of females, males; shuffle; split into two; bind set F1 and M1 as training and F2 and M2 as validation

boston\_F = boston\_data\_s[boston\_data\_s['X4, Gender']== 1]

boston\_Fs = shuffle(boston\_F, random\_state = 3)

#There are 11972 females, so split into 2 groups of 5986

boston\_Fa = boston\_Fs.iloc[0:5986,: ]

boston\_Fb = boston\_Fs.iloc[5986:11972,: ]

boston\_M = boston\_data\_s[boston\_data\_s['X4, Gender']== 0]

boston\_Ms = shuffle(boston\_M, random\_state = 4)

#There are 14438 males, so split into 2 groups of 7219

boston\_Ma = boston\_Ms.iloc[0:7219,: ]

boston\_Mb = boston\_Ms.iloc[7219:14438,: ]

#Now we merge females "a" and males "a" for dataset "a" (for training) and merge

#females "b" and males "b" for dataset "b" (validation)

boston\_data\_A = pd.concat([boston\_Fa, boston\_Ma])

boston\_data\_B = pd.concat([boston\_Fb, boston\_Mb])

#Now sort the two datasets by Y, official time

boston\_data\_A = boston\_data\_A.sort\_values(by=['Y, Official Time'])

boston\_data\_A.dropna

boston\_data\_B = boston\_data\_B.sort\_values(by=['Y, Official Time'])

boston\_data\_B.dropna

#boston\_data\_B.head(20)

#Splitting Data into training and test data before creation of model

#set seed to 30 in random\_state argument so that we consistently choose to start at this seed every time

#this code is run so that that training data for model building will be consistent

#boston\_data\_A.drop('Bib', axis = 1)

col\_set = ['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender', 'X5, Wave: Elite', 'X6, Wave: One', 'X7, Wave: Two', 'X8, Wave: Three']

for i in range(len(col\_set)):

indexNames = 0

indexNames = boston\_data\_A[boston\_data\_A[col\_set[i]] == '#VALUE!' ].index

if len(indexNames>0):

# Delete these row indexes from dataFrame

boston\_data\_A.drop(indexNames , inplace=True)

#Do for B as well

for i in range(len(col\_set)):

indexNames = 0

indexNames = boston\_data\_B[boston\_data\_B[col\_set[i]] == '#VALUE!' ].index

if len(indexNames>0):

# Delete these row indexes from dataFrame

boston\_data\_B.drop(indexNames , inplace=True)

#more data cleaning

boston\_data\_A['X2, 5K Pace'] = pd.to\_numeric(boston\_data\_A['X2, 5K Pace'])

boston\_data\_A['X3, Half Pace'] = pd.to\_numeric(boston\_data\_A['X3, Half Pace'])

boston\_data\_A['Index'] = list(range(len(boston\_data\_A)))

boston\_data\_B['X2, 5K Pace'] = pd.to\_numeric(boston\_data\_B['X2, 5K Pace'])

boston\_data\_B['X3, Half Pace'] = pd.to\_numeric(boston\_data\_B['X3, Half Pace'])

boston\_data\_B['Index'] = list(range(len(boston\_data\_B)))

#Export to CSV

boston\_data\_A.to\_csv('boston\_data\_A.csv')

files.download('boston\_data\_A.csv')

boston\_data\_B.to\_csv('boston\_data\_B.csv')

files.download('boston\_data\_B.csv')

"""# Data Statistical Summary: Normality of Residuals"""

#@title OLS Regression Model starting point{ form-width: "120px" }

#OLS regression

X = boston\_data\_A[['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender', 'X5, Wave: Elite', 'X6, Wave: One', 'X7, Wave: Two', 'X8, Wave: Three']]

y = boston\_data\_A['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

boston\_fit\_A = sm.OLS(y, X.astype(float)).fit()

# fitted values (need a constant term for intercept)

boston\_fit\_A\_y = boston\_fit\_A.fittedvalues

boston\_data\_A['Yfit'] = boston\_fit\_A\_y

# residuals

boston\_fit\_A\_residuals = boston\_fit\_A.resid

boston\_data\_A['Res'] = boston\_fit\_A\_residuals

boston\_fit\_A.summary()

#@title Residual Plots{ form-width: "120px" }

#residual plot for Y

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

resplot = sns.residplot(boston\_data\_A['Yfit'], boston\_data\_A['Res'], lowess=True, color="darkcyan", scatter\_kws={'s':2})

resplot.axes.set\_title('Residual Plot for Y')

resplot.axes.set\_xlabel('Predicted Value')

resplot.axes.set\_ylabel('Residuals')

#Normal QQ plot for Y

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

plt.rc('lines', markersize = 2)

qqplot = sm.qqplot(boston\_data\_A['Res'], line = 'r',color="darkcyan" )

plt.title('Normal QQ Plot for Y')

plt.show()

#Plot is symmetric with heavy tails

#OLS regression for Y' = lnY

X = boston\_data\_A[['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender', 'X5, Wave: Elite', 'X6, Wave: One', 'X7, Wave: Two', 'X8, Wave: Three']]

#new colun for Y' = ln

boston\_data\_A['lnY, Official Time']= np.log(boston\_data\_A['Y, Official Time'])

y = boston\_data\_A['lnY, Official Time']

## fit a OLS

X = sm.add\_constant(X)

boston\_fit\_B\_lnY = sm.OLS(y, X.astype(float)).fit()

# fitted values (need a constant term for intercept)

boston\_fit\_B\_lnY\_fit = boston\_fit\_B\_lnY.fittedvalues

boston\_data\_A['lnYfit'] = boston\_fit\_B\_lnY\_fit

# residuals

boston\_fit\_B\_lnY\_residuals = boston\_fit\_B\_lnY.resid

boston\_data\_A['Res, lnY'] = boston\_fit\_B\_lnY\_residuals

boston\_fit\_B\_lnY.summary()

#residual plot for lnY

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

resplot = sns.residplot(boston\_data\_A['lnYfit'], boston\_data\_A['Res, lnY'], lowess=True, color="darkcyan", scatter\_kws={'s':2})

resplot.axes.set\_title('Residual Plot for lnY')

resplot.axes.set\_xlabel('Predicted Value')

resplot.axes.set\_ylabel('Residuals')

#Normal QQ plot for lnY

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

plt.rc('lines', markersize = 2)

qqplot2 = sm.qqplot(boston\_data\_A['Res, lnY'], line = 'r')

plt.title('Normal QQ Plot for lnY')

plt.show()

#Standardized Residuals For Y Histogram

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

stdresidY = boston\_fit\_A.resid\_pearson

sns.distplot(stdresidY, bins = 50, color = "darkcyan", hist\_kws=dict(edgecolor="k", linewidth=1))

plt.rcParams["patch.force\_edgecolor"] = True

plt.xlim([-5,5])

#plt.autoscale(enable=True, axis='y')

plt.title('Histogram for Normalized Residuals')

plt.show()

#The Histogram of Normalized Residuals reveals a normal distribution. This was using Y prior to the lnY transformation. For the model, I will

#stick with using Y rather than lnY as there have not been improvements with residual normality after a lnY transformation.

#Histogram for elite wave

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

wave\_e = boston\_data\_A[boston\_data\_A['X5, Wave: Elite']== 1]

wave\_e\_B = boston\_data\_B[boston\_data\_B['X5, Wave: Elite']== 1]

sns.distplot(wave\_e["Y, Official Time"], bins = 35, color = "m", hist\_kws=dict(edgecolor="k", linewidth=1))

plt.rcParams["patch.force\_edgecolor"] = True

#plt.xlim([-5,5])

#plt.autoscale(enable=True, axis='y')

plt.title('Histogram for Wave: Elite')

plt.show()

#OLS regression for ELITE

X = wave\_e[['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender']]

## fit a OLS

X = sm.add\_constant(X)

y = wave\_e['Y, Official Time']

elite\_OLS = sm.OLS(y, X.astype(float)).fit()

# fitted values (need a constant term for intercept)

elite\_OLS\_fit = elite\_OLS.fittedvalues

wave\_e['elite\_fit'] = elite\_OLS\_fit

# residuals

elite\_OLS\_res = elite\_OLS.resid

wave\_e['Res, elite\_OLS'] = elite\_OLS\_res

elite\_OLS.summary()

#Normal QQ plot for Elite Wave

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

plt.rc('lines', markersize = 3)

qqplot2 = sm.qqplot(wave\_e['Res, elite\_OLS'], line = "r", color = "m")

plt.title('Normal QQ Plot for Wave: Elite')

plt.show()

#Histogram for wave 1

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

wave\_1 = boston\_data\_A[boston\_data\_A['X6, Wave: One']== 1]

wave\_1\_B = boston\_data\_B[boston\_data\_B['X6, Wave: One']== 1]

sns.distplot(wave\_1["Y, Official Time"], bins = 35, color = "coral", hist\_kws=dict(edgecolor="k", linewidth=1))

plt.rcParams["patch.force\_edgecolor"] = True

#plt.xlim([-5,5])

#plt.autoscale(enable=True, axis='y')

plt.title('Histogram for Wave: One')

plt.show()

#OLS regression for wave 1

X = wave\_1[['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender']]

y = wave\_1['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

w1\_OLS = sm.OLS(y, X.astype(float)).fit()

# fitted values (need a constant term for intercept)

w1\_OLS\_fit = w1\_OLS.fittedvalues

wave\_1['w1\_fit'] = w1\_OLS\_fit

# residuals

w1\_OLS\_res = w1\_OLS.resid

wave\_1['Res, w1\_OLS'] = w1\_OLS\_res

w1\_OLS.summary()

#Normal QQ plot for Wave One

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

plt.rc('lines', markersize = 2)

qqplot2 = sm.qqplot(wave\_1['Res, w1\_OLS'], line = "r", color = "coral")

plt.title('Normal QQ Plot for Wave: One')

plt.show()

#Histogram for wave 2

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

wave\_2 = boston\_data\_A[boston\_data\_A['X7, Wave: Two']== 1]

wave\_2\_B = boston\_data\_B[boston\_data\_B['X7, Wave: Two']== 1]

sns.distplot(wave\_2["Y, Official Time"], bins = 35, color = "steelblue", hist\_kws=dict(edgecolor="k", linewidth=1))

plt.rcParams["patch.force\_edgecolor"] = True

#plt.xlim([-5,5])

#plt.autoscale(enable=True, axis='y')

plt.title('Histogram for Wave: Two')

plt.show()

#OLS regression for wave 2

X = wave\_2[['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender']]

y = wave\_2['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

w2\_OLS = sm.OLS(y, X.astype(float)).fit()

# fitted values (need a constant term for intercept)

w2\_OLS\_fit = w2\_OLS.fittedvalues

wave\_2['w2\_fit'] = w2\_OLS\_fit

# residuals

w2\_OLS\_res = w2\_OLS.resid

wave\_2['Res, w2\_OLS'] = w2\_OLS\_res

w2\_OLS.summary()

#Normal QQ plot for Wave One

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

plt.rc('lines', markersize = 2)

qqplot2 = sm.qqplot(wave\_2['Res, w2\_OLS'], line = "r", color = "steelblue")

plt.title('Normal QQ Plot for Wave: Two')

plt.show()

#Histograms for wave 3

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

wave\_3 = boston\_data\_A[boston\_data\_A['X8, Wave: Three']== 1]

wave\_3\_B = boston\_data\_B[boston\_data\_B['X8, Wave: Three']== 1]

sns.distplot(wave\_3["Y, Official Time"], bins = 35, color = "seagreen", hist\_kws=dict(edgecolor="k", linewidth=1))

plt.rcParams["patch.force\_edgecolor"] = True

#plt.xlim([-5,5])

#plt.autoscale(enable=True, axis='y')

plt.title('Histogram for Wave: Three')

plt.show()

#OLS regression for wave 3

X = wave\_3[['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender']]

y = wave\_3['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

w3\_OLS = sm.OLS(y, X.astype(float)).fit()

# fitted values (need a constant term for intercept)

w3\_OLS\_fit = w3\_OLS.fittedvalues

wave\_3['w3\_fit'] = w3\_OLS\_fit

# residuals

w3\_OLS\_res = w3\_OLS.resid

wave\_3['Res, w3\_OLS'] = w3\_OLS\_res

w3\_OLS.summary()

#Normal QQ plot for Wave One

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

plt.rc('lines', markersize = 2)

qqplot2 = sm.qqplot(wave\_3['Res, w3\_OLS'], line = "r", color = "seagreen")

plt.title('Normal QQ Plot for Wave: Three')

plt.show()

#Histogram for wave 4

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

wave\_4 = boston\_data\_A[(boston\_data\_A['X8, Wave: Three'] + boston\_data\_A['X7, Wave: Two'] + boston\_data\_A['X6, Wave: One'] + boston\_data\_A['X5, Wave: Elite']) == 0 ]

wave\_4\_B = boston\_data\_B[(boston\_data\_B['X8, Wave: Three'] + boston\_data\_B['X7, Wave: Two'] + boston\_data\_B['X6, Wave: One'] + boston\_data\_B['X5, Wave: Elite']) == 0 ]

sns.distplot(wave\_4["Y, Official Time"], bins = 35, color = "mediumpurple", hist\_kws=dict(edgecolor="k", linewidth=1))

plt.rcParams["patch.force\_edgecolor"] = True

#plt.xlim([-5,5])

#plt.autoscale(enable=True, axis='y')

plt.title('Histogram for Wave: Four')

plt.show()

#OLS regression for wave 4

X = wave\_4[['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender']]

y = wave\_4['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

w4\_OLS = sm.OLS(y, X.astype(float)).fit()

# fitted values (need a constant term for intercept)

w4\_OLS\_fit = w4\_OLS.fittedvalues

wave\_4['w4\_fit'] = w4\_OLS\_fit

# residuals

w4\_OLS\_res = w4\_OLS.resid

wave\_4['Res, w4\_OLS'] = w4\_OLS\_res

w4\_OLS.summary()

#Normal QQ plot for Wave One

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

plt.rc('lines', markersize = 2)

qqplot2 = sm.qqplot(wave\_4['Res, w4\_OLS'], line = "r", color = "mediumpurple")

plt.title('Normal QQ Plot for Wave: Four')

plt.show()

"""# Preliminary Research"""

# Understanding the data

#Scatter Plot of 5k pace vs half marathon pace

cmap = sns.cubehelix\_palette(dark=.3, light=.8, as\_cmap=True)

ax = sns.scatterplot(x = 'X2, 5K Pace', y = 'X3, Half Pace', sizes=(20, 200), palette=cmap, hue\_norm=(0, 7), legend="full", data = boston\_data\_A)

#Partial Regression Plots

fig = plt.figure(figsize=(12,17))

plt.style.use('seaborn')

plt.rc('font', size=14)

plt.rc('figure', titlesize=18)

plt.rc('axes', labelsize=15)

plt.rc('axes', titlesize=18)

plt.rc('lines', markersize = 2)

plt.rc('lines', linewidth = 1)

plt.rc('lines', color = 'forestgreen')

fig = sm.graphics.plot\_partregress\_grid( boston\_fit\_A, fig=fig)

#fig2 = boston\_fit\_A.plot\_coefficients\_of\_determination(figsize=(8,2))

"""# Data Statistical Summary: Correlations, Matrix Plots, Scatter Plots"""

#@title Correlation Matrix Heatmap{ form-width: "120px" }

boston\_select\_A = boston\_data\_A.loc[:,['Y, Official Time','X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender', 'X5, Wave: Elite', 'X6, Wave: One', 'X7, Wave: Two', 'X8, Wave: Three']]

corrMatrix = boston\_select\_A.corr()

display(corrMatrix)

mask = np.zeros\_like(corrMatrix)

mask[np.triu\_indices\_from(mask)] = True

fig, ax = plt.subplots(figsize=(8,8))

with sns.axes\_style("white"):

sns.heatmap(corrMatrix, mask=mask, square= True, annot=True, cmap='YlGnBu', vmin=-1, vmax=1, linewidths=1)

ax.set\_ylim(11, 0)

#@title Pairwise { form-width: "120px" }

display(boston\_select\_A.describe(include='all'))

#d.summary(stats='basic', columns='all', orientation='auto')

#@title Pairwise scatter plots for checking multicollinearity{ form-width: "120px" }

sns.pairplot(boston\_select\_A, height = 2.5)

#I'd like to investigate the negative coefficient for X4, Gender

sns.lmplot(y='X2, 5K Pace', x='X3, Half Pace',

hue='X4, Gender', data=boston\_select\_A, lowess = True, palette = 'seismic', markers = "+", scatter\_kws={'s':6, 'alpha':0.2})

#plt.rc("lines", )

plt.title('Impact of Gender on Pace')

**Remedial Measures**

from scipy import stats

#influence & outliers

#GENERAL MODEL

#make new empty dataframe of outliers

oddcases\_g = pd.DataFrame()

#INFLUENCE OLS Influence results

b\_influences = boston\_fit\_A.get\_influence()

###ti externally studentized deleted residuals

b\_ti = b\_influences.resid\_studentized\_external

boston\_data\_A['ti']=b\_ti

###t test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10

#t(1-(alpha/2n); n-p-1)

#cases greater denote outliers in Y; should be added to outlier list

t\_bon = stats.t.ppf(1-(.10/(2\*len(boston\_data\_A))), (len(boston\_data\_A)-9-1))

#4.478348339712635

print("t value for test for Bonferroni simultaneous test procedure with a family significance level of alpha = .10: ", t\_bon)

bad\_ti = boston\_data\_A[abs(boston\_data\_A['ti']) > t\_bon]

#71 outliers; not bad for sample size

#### leverage, from statsmodels internals

b\_leverage = b\_influences.hat\_matrix\_diag

boston\_data\_A['hii'] = b\_leverage

#leverage that is greater than 3p/n denotes extreme outliers in X (I changed criteria from 2p/n to 3p/n to avoid deleting too many data points)

hii\_marker = 3\*9/len(boston\_data\_A)

print("Hii cutoff point for declaring outliers in X: ", hii\_marker)

bad\_hii = boston\_data\_A[abs(boston\_data\_A['hii']) > hii\_marker]

#463 cases (greater than 2\*(p/n)) --> 155 cases with tighter criteria (greater than 3\*(p/n))

#### DFFITS, from statsmodels internals

###NOTE, due to large number of DFFITS greater than 2\*sqrt(p/n), I changed the criteria of highly influential for the model to 4\*sqrt(p/n) to avoid

#getting rid of too many data points

b\_DFFITS = b\_influences.dffits

boston\_data\_A['DFFITS'] = b\_DFFITS[0]

#DFFITS greater than 4\*sqrt(p/n) denotes very high influence; for a small n, DFFITS greater than 1 denotes high influence

DFFITS\_marker = 4\*math.sqrt(9/len(boston\_data\_A))

print("DFFITS cutoff point for declaring highly influential points: ", DFFITS\_marker)

bad\_DFFITS = boston\_data\_A[abs(boston\_data\_A['DFFITS']) > DFFITS\_marker]

#607 cases (greater than 2\*sqrt(p/n)) --> 127 cases with tighter criteria (greater than 4\*sqrt(p/n))

# cook's distance, from statsmodels internals

b\_cooks = b\_influences.cooks\_distance[0]

boston\_data\_A['Cooks distance'] = b\_cooks

#Now we need the F statistic from F(p,n-p) distribution to see if the percentile is 50 percent or more. Find 50th percentile and see if DFFITS value exceeds

F50 = sp.stats.f.ppf(q=.5, dfn=9, dfd=(len(boston\_data\_A)-9))

print("F statistic from F(p,n-p) distribution at 50th percentile: ", F50)

bad\_cooks = boston\_data\_A[abs(boston\_data\_A['Cooks distance']) > F50]

#0.9270286556620607

#No cases

#TABLE OF OUTLIERS AND INFLUENCERS

oddcases\_g = pd.concat([bad\_ti, bad\_hii, bad\_DFFITS, bad\_cooks])

boston\_data\_A\_g = boston\_data\_A[~boston\_data\_A['Bib'].isin(oddcases\_g['Bib'])]

print("The number of outliers and influential points deleted from the data is: ", len(boston\_data\_A)-len(boston\_data\_A\_g))

#Export to CSV

boston\_data\_A\_g = shuffle(boston\_data\_A\_g, random\_state = 3)

boston\_data\_A\_g.to\_csv('boston\_data\_A\_g.csv')

files.download('boston\_data\_A\_g.csv')

boston\_data\_B= shuffle(boston\_data\_B, random\_state = 3)

boston\_data\_B.to\_csv('boston\_data\_B.csv')

files.download('boston\_data\_B.csv')

#WAVE Elite

#make new empty dataframe of outliers

oddcases\_e = pd.DataFrame()

#INFLUENCE OLS Influence results

b\_influences\_e = elite\_OLS.get\_influence()

###ti externally studentized deleted residuals

b\_ti\_e = b\_influences\_e.resid\_studentized\_external

wave\_e['ti']=b\_ti\_e

###t test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10

#t(1-(alpha/2n); n-p-1)

#cases greater denote outliers in Y; should be added to outlier list

t\_bon\_e = stats.t.ppf(1-(.10/(2\*len(wave\_e))), (len(wave\_e)-9-1))

print("t value for test for Bonferroni simultaneous test procedure with a family significance level of alpha = .10: ", t\_bon\_e)

bad\_ti\_e = wave\_e[abs(wave\_e['ti']) > t\_bon\_e]

#### leverage, from statsmodels internals

b\_leverage\_e = b\_influences\_e.hat\_matrix\_diag

wave\_e['hii'] = b\_leverage\_e

#leverage that is greater than 3p/n denotes extreme outliers in X (I changed criteria from 2p/n to 3p/n to avoid deleting too many data points)

hii\_marker\_e = 3\*9/len(wave\_e)

print("Hii cutoff point for declaring outliers in X: ", hii\_marker\_e)

bad\_hii\_e = wave\_e[abs(wave\_e['hii']) > hii\_marker\_e]

#### DFFITS, from statsmodels internals

###NOTE, due to large number of DFFITS greater than 2\*sqrt(p/n), I changed the criteria of highly influential for the model to 4\*sqrt(p/n) to avoid

#getting rid of too many data points

b\_DFFITS\_e = b\_influences\_e.dffits

wave\_e['DFFITS'] = b\_DFFITS\_e[0]

#DFFITS greater than 4\*sqrt(p/n) denotes very high influence; for a small n, DFFITS greater than 1 denotes high influence

DFFITS\_marker\_e = 4\*math.sqrt(9/len(wave\_e))

print("DFFITS cutoff point for declaring highly influential points: ", DFFITS\_marker\_e)

bad\_DFFITS\_e = wave\_e[abs(wave\_e['DFFITS']) > DFFITS\_marker\_e]

# cook's distance, from statsmodels internals

b\_cooks\_e = b\_influences\_e.cooks\_distance[0]

wave\_e['Cooks distance'] = b\_cooks\_e

#Now we need the F statistic from F(p,n-p) distribution to see if the percentile is 50 percent or more. Find 50th percentile and see if DFFITS value exceeds

F50\_e = sp.stats.f.ppf(q=.5, dfn=9, dfd=(len(wave\_e)-9))

print("F statistic from F(p,n-p) distribution at 50th percentile: ", F50\_e)

bad\_cooks\_e = wave\_e[abs(wave\_e['Cooks distance']) > F50\_e]

#TABLE OF OUTLIERS AND INFLUENCERS

oddcases\_e = pd.concat([bad\_ti\_e, bad\_hii\_e, bad\_DFFITS\_e, bad\_cooks\_e])

#wave\_e\_g is "good" data that is left

wave\_e\_g = wave\_e[~wave\_e['Bib'].isin(oddcases\_e['Bib'])]

print("The number of outliers and influential points deleted from the data is: ", len(wave\_e)-len(wave\_e\_g))

#WAVE One

#make new empty dataframe of outliers

oddcases\_1 = pd.DataFrame()

#INFLUENCE OLS Influence results

b\_influences\_1 = w1\_OLS.get\_influence()

###ti externally studentized deleted residuals

b\_ti\_1 = b\_influences\_1.resid\_studentized\_external

wave\_1['ti']=b\_ti\_1

###t test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10

#t(1-(alpha/2n); n-p-1)

#cases greater denote outliers in Y; should be added to outlier list

t\_bon\_1 = stats.t.ppf(1-(.10/(2\*len(wave\_1))), (len(wave\_1)-9-1))

print("t value for test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10: ", t\_bon\_1)

bad\_ti\_1 = wave\_1[abs(wave\_1['ti']) > t\_bon\_1]

#### leverage, from statsmodels internals

b\_leverage\_1 = b\_influences\_1.hat\_matrix\_diag

wave\_1['hii'] = b\_leverage\_1

#leverage that is greater than 3p/n denotes extreme outliers in X (I changed criteria from 2p/n to 3p/n to avoid deleting too many data points)

hii\_marker\_1 = 3\*9/len(wave\_1)

print("Hii cutoff point for declaring outliers in X: ", hii\_marker\_1)

bad\_hii\_1 = wave\_1[abs(wave\_1['hii']) > hii\_marker\_1]

#### DFFITS, from statsmodels internals

###NOTE, due to large number of DFFITS greater than 2\*sqrt(p/n), I changed the criteria of highly influential for the model to 4\*sqrt(p/n) to avoid

#getting rid of too many data points

b\_DFFITS\_1 = b\_influences\_1.dffits

wave\_1['DFFITS'] = b\_DFFITS\_1[0]

#DFFITS greater than 4\*sqrt(p/n) denotes very high influence; for a small n, DFFITS greater than 1 denotes high influence

DFFITS\_marker\_1 = 4\*math.sqrt(9/len(wave\_1))

print("DFFITS cutoff point for declaring highly influential points: ", DFFITS\_marker\_1)

bad\_DFFITS\_1 = wave\_1[abs(wave\_1['DFFITS']) > DFFITS\_marker\_1]

# cook's distance, from statsmodels internals

b\_cooks\_1 = b\_influences\_1.cooks\_distance[0]

wave\_1['Cooks distance'] = b\_cooks\_1

#Now we need the F statistic from F(p,n-p) distribution to see if the percentile is 50 percent or more. Find 50th percentile and see if DFFITS value exceeds

F50\_1 = sp.stats.f.ppf(q=.5, dfn=9, dfd=(len(wave\_1)-9))

print("F statistic from F(p,n-p) distribution at 50th percentile: ", F50\_1)

bad\_cooks\_1 = wave\_1[abs(wave\_1['Cooks distance']) > F50\_1]

#TABLE OF OUTLIERS AND INFLUENCERS

oddcases\_1 = pd.concat([bad\_ti\_1, bad\_hii\_1, bad\_DFFITS\_1, bad\_cooks\_1])

#wave\_e\_g is "good" data that is left

wave\_1\_g = wave\_1[~wave\_1['Bib'].isin(oddcases\_1['Bib'])]

print("The number of outliers and influential points deleted from the data is: ", len(wave\_1)-len(wave\_1\_g))

#WAVE Two

#make new empty dataframe of outliers

oddcases\_2 = pd.DataFrame()

#INFLUENCE OLS Influence results

b\_influences\_2 = w2\_OLS.get\_influence()

###ti externally studentized deleted residuals

b\_ti\_2 = b\_influences\_2.resid\_studentized\_external

wave\_2['ti']=b\_ti\_2

###t test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10

#t(1-(alpha/2n); n-p-1)

#cases greater denote outliers in Y; should be added to outlier list

t\_bon\_2 = stats.t.ppf(1-(.10/(2\*len(wave\_2))), (len(wave\_2)-9-1))

print("t value for test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10: ", t\_bon\_2)

bad\_ti\_2 = wave\_2[abs(wave\_2['ti']) > t\_bon\_2]

#### leverage, from statsmodels internals

b\_leverage\_2 = b\_influences\_2.hat\_matrix\_diag

wave\_2['hii'] = b\_leverage\_2

#leverage that is greater than 3p/n denotes extreme outliers in X (I changed criteria from 2p/n to 3p/n to avoid deleting too many data points)

hii\_marker\_2 = 3\*9/len(wave\_2)

print("Hii cutoff point for declaring outliers in X: ", hii\_marker\_2)

bad\_hii\_2 = wave\_2[abs(wave\_2['hii']) > hii\_marker\_2]

#### DFFITS, from statsmodels internals

###NOTE, due to large number of DFFITS greater than 2\*sqrt(p/n), I changed the criteria of highly influential for the model to 4\*sqrt(p/n) to avoid

#getting rid of too many data points

b\_DFFITS\_2 = b\_influences\_2.dffits

wave\_2['DFFITS'] = b\_DFFITS\_2[0]

#DFFITS greater than 4\*sqrt(p/n) denotes very high influence; for a small n, DFFITS greater than 1 denotes high influence

DFFITS\_marker\_2 = 4\*math.sqrt(9/len(wave\_2))

print("DFFITS cutoff point for declaring highly influential points: ", DFFITS\_marker\_2)

bad\_DFFITS\_2 = wave\_2[abs(wave\_2['DFFITS']) > DFFITS\_marker\_2]

# cook's distance, from statsmodels internals

b\_cooks\_2 = b\_influences\_2.cooks\_distance[0]

wave\_2['Cooks distance'] = b\_cooks\_2

#Now we need the F statistic from F(p,n-p) distribution to see if the percentile is 50 percent or more. Find 50th percentile and see if DFFITS value exceeds

F50\_2 = sp.stats.f.ppf(q=.5, dfn=9, dfd=(len(wave\_2)-9))

print("F statistic from F(p,n-p) distribution at 50th percentile: ", F50\_2)

bad\_cooks\_2 = wave\_2[abs(wave\_2['Cooks distance']) > F50\_2]

#TABLE OF OUTLIERS AND INFLUENCERS

oddcases\_2 = pd.concat([bad\_ti\_2, bad\_hii\_2, bad\_DFFITS\_2, bad\_cooks\_2])

#wave\_e\_g is "good" data that is left

wave\_2\_g = wave\_2[~wave\_2['Bib'].isin(oddcases\_2['Bib'])]

print("The number of outliers and influential points deleted from the data is: ", len(wave\_2)-len(wave\_2\_g))

#WAVE Three

#make new empty dataframe of outliers

oddcases\_3 = pd.DataFrame()

#INFLUENCE OLS Influence results

b\_influences\_3 = w3\_OLS.get\_influence()

###ti externally studentized deleted residuals

b\_ti\_3 = b\_influences\_3.resid\_studentized\_external

wave\_3['ti']=b\_ti\_3

###t test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10

#t(1-(alpha/2n); n-p-1)

#cases greater denote outliers in Y; should be added to outlier list

t\_bon\_3 = stats.t.ppf(1-(.10/(2\*len(wave\_3))), (len(wave\_3)-9-1))

print("t value for test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10: ", t\_bon\_3)

bad\_ti\_3 = wave\_3[abs(wave\_3['ti']) > t\_bon\_3]

#### leverage, from statsmodels internals

b\_leverage\_3 = b\_influences\_3.hat\_matrix\_diag

wave\_3['hii'] = b\_leverage\_3

#leverage that is greater than 3p/n denotes extreme outliers in X (I changed criteria from 2p/n to 3p/n to avoid deleting too many data points)

hii\_marker\_3 = 3\*9/len(wave\_3)

print("Hii cutoff point for declaring outliers in X: ", hii\_marker\_3)

bad\_hii\_3 = wave\_3[abs(wave\_3['hii']) > hii\_marker\_3]

#### DFFITS, from statsmodels internals

###NOTE, due to large number of DFFITS greater than 2\*sqrt(p/n), I changed the criteria of highly influential for the model to 4\*sqrt(p/n) to avoid

#getting rid of too many data points

b\_DFFITS\_3 = b\_influences\_3.dffits

wave\_3['DFFITS'] = b\_DFFITS\_3[0]

#DFFITS greater than 4\*sqrt(p/n) denotes very high influence; for a small n, DFFITS greater than 1 denotes high influence

DFFITS\_marker\_3 = 4\*math.sqrt(9/len(wave\_3))

print("DFFITS cutoff point for declaring highly influential points: ", DFFITS\_marker\_3)

bad\_DFFITS\_3 = wave\_3[abs(wave\_3['DFFITS']) > DFFITS\_marker\_3]

# cook's distance, from statsmodels internals

b\_cooks\_3 = b\_influences\_3.cooks\_distance[0]

wave\_3['Cooks distance'] = b\_cooks\_3

#Now we need the F statistic from F(p,n-p) distribution to see if the percentile is 50 percent or more. Find 50th percentile and see if DFFITS value exceeds

F50\_3 = sp.stats.f.ppf(q=.5, dfn=9, dfd=(len(wave\_3)-9))

print("F statistic from F(p,n-p) distribution at 50th percentile: ", F50\_3)

bad\_cooks\_3 = wave\_3[abs(wave\_3['Cooks distance']) > F50\_3]

#TABLE OF OUTLIERS AND INFLUENCERS

oddcases\_3 = pd.concat([bad\_ti\_3, bad\_hii\_3, bad\_DFFITS\_3, bad\_cooks\_3])

#wave\_e\_g is "good" data that is left

wave\_3\_g = wave\_3[~wave\_3['Bib'].isin(oddcases\_3['Bib'])]

print("The number of outliers and influential points deleted from the data is: ", len(wave\_3)-len(wave\_3\_g))

#WAVE Four

#make new empty dataframe of outliers

oddcases\_4 = pd.DataFrame()

#INFLUENCE OLS Influence results

b\_influences\_4 = w4\_OLS.get\_influence()

###ti externally studentized deleted residuals

b\_ti\_4 = b\_influences\_4.resid\_studentized\_external

wave\_4['ti']=b\_ti\_4

###t test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10

#t(1-(alpha/2n); n-p-1)

#cases greater denote outliers in Y; should be added to outlier list

t\_bon\_4 = stats.t.ppf(1-(.10/(2\*len(wave\_4))), (len(wave\_4)-9-1))

print("t value for test for Bonferroni sumultaneous test procedure with a family significance level of alpha = .10: ", t\_bon\_4)

bad\_ti\_4 = wave\_4[abs(wave\_4['ti']) > t\_bon\_4]

#### leverage, from statsmodels internals

b\_leverage\_4 = b\_influences\_4.hat\_matrix\_diag

wave\_4['hii'] = b\_leverage\_4

#leverage that is greater than 3p/n denotes extreme outliers in X (I changed criteria from 2p/n to 3p/n to avoid deleting too many data points)

hii\_marker\_4 = 3\*9/len(wave\_4)

print("Hii cutoff point for declaring outliers in X: ", hii\_marker\_4)

bad\_hii\_4 = wave\_4[abs(wave\_4['hii']) > hii\_marker\_4]

#### DFFITS, from statsmodels internals

###NOTE, due to large number of DFFITS greater than 2\*sqrt(p/n), I changed the criteria of highly influential for the model to 4\*sqrt(p/n) to avoid

#getting rid of too many data points

b\_DFFITS\_4 = b\_influences\_4.dffits

wave\_4['DFFITS'] = b\_DFFITS\_4[0]

#DFFITS greater than 4\*sqrt(p/n) denotes very high influence; for a small n, DFFITS greater than 1 denotes high influence

DFFITS\_marker\_4 = 4\*math.sqrt(9/len(wave\_4))

print("DFFITS cutoff point for declaring highly influential points: ", DFFITS\_marker\_4)

bad\_DFFITS\_4 = wave\_4[abs(wave\_4['DFFITS']) > DFFITS\_marker\_4]

# cook's distance, from statsmodels internals

b\_cooks\_4 = b\_influences\_4.cooks\_distance[0]

wave\_4['Cooks distance'] = b\_cooks\_4

#Now we need the F statistic from F(p,n-p) distribution to see if the percentile is 50 percent or more. Find 50th percentile and see if DFFITS value exceeds

F50\_4 = sp.stats.f.ppf(q=.5, dfn=9, dfd=(len(wave\_4)-9))

print("F statistic from F(p,n-p) distribution at 50th percentile: ", F50\_4)

bad\_cooks\_4 = wave\_4[abs(wave\_4['Cooks distance']) > F50\_4]

#TABLE OF OUTLIERS AND INFLUENCERS

oddcases\_4 = pd.concat([bad\_ti\_4, bad\_hii\_4, bad\_DFFITS\_4, bad\_cooks\_4])

#wave\_e\_g is "good" data that is left

wave\_4\_g = wave\_4[~wave\_4['Bib'].isin(oddcases\_4['Bib'])]

print("The number of outliers and influential points deleted from the data is: ", len(wave\_4)-len(wave\_4\_g))

wave\_e\_g= shuffle(wave\_e\_g, random\_state = 3)

wave\_e\_g.to\_csv('wave\_e\_g.csv')

files.download('wave\_e\_g.csv')

wave\_e\_B= shuffle(wave\_e\_B, random\_state = 3)

wave\_e\_B.to\_csv('wave\_e\_B.csv')

files.download('wave\_e\_B.csv')

wave\_1\_g= shuffle(wave\_1\_g, random\_state = 3)

wave\_1\_g.to\_csv('wave\_1\_g.csv')

files.download('wave\_1\_g.csv')

wave\_1\_B= shuffle(wave\_1\_B, random\_state = 3)

wave\_1\_B.to\_csv('wave\_1\_B.csv')

files.download('wave\_1\_B.csv')

wave\_2\_g= shuffle(wave\_2\_g, random\_state = 3)

wave\_2\_g.to\_csv('wave\_2\_g.csv')

files.download('wave\_2\_g.csv')

wave\_2\_B= shuffle(wave\_2\_B, random\_state = 3)

wave\_2\_B.to\_csv('wave\_2\_B.csv')

files.download('wave\_2\_B.csv')

wave\_3\_g= shuffle(wave\_3\_g, random\_state = 3)

wave\_3\_g.to\_csv('wave\_3\_g.csv')

files.download('wave\_3\_g.csv')

wave\_3\_B= shuffle(wave\_3\_B, random\_state = 3)

wave\_3\_B.to\_csv('wave\_3\_B.csv')

files.download('wave\_3\_B.csv')

wave\_4\_g= shuffle(wave\_4\_g, random\_state = 3)

wave\_4\_g.to\_csv('wave\_4\_g.csv')

files.download('wave\_4\_g.csv')

wave\_4\_B= shuffle(wave\_4\_B, random\_state = 3)

wave\_4\_B.to\_csv('wave\_4\_B.csv')

files.download('wave\_4\_B.csv')

#Plotting regression plots with confidence interval bands

#MODEL 1- general

X = boston\_data\_A\_g[['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender', 'X5, Wave: Elite', 'X6, Wave: One', 'X7, Wave: Two', 'X8, Wave: Three']]

y = boston\_data\_A\_g['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

m1fit = sm.OLS(y, X).fit()

m1fit.summary()

#MODEL 2- wave elite

X2 = wave\_e\_g[['X2, 5K Pace', 'X3, Half Pace']]

y2 = wave\_e\_g['Y, Official Time']

## fit a OLS

X2 = sm.add\_constant(X2)

m2fit = sm.OLS(y2, X2).fit()

m2fit.summary()

#Plotting regression plots with confidence interval bands

#MODEL 3- wave 1

X = wave\_1\_g[['X1, Age', 'X2, 5K Pace', 'X3, Half Pace', 'X4, Gender']]

y = wave\_1\_g['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

m1fit = sm.OLS(y, X).fit()

m1fit.summary()

#Plotting regression plots with confidence interval bands

#MODEL 4- wave 2

X = wave\_2\_g[['X2, 5K Pace', 'X3, Half Pace', 'X4, Gender']]

y = wave\_2\_g['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

m1fit = sm.OLS(y, X).fit()

m1fit.summary()

#Plotting regression plots with confidence interval bands

#MODEL 5- wave 3

X = wave\_3\_g[['X2, 5K Pace', 'X3, Half Pace', 'X4, Gender']]

y = wave\_3\_g['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

m1fit = sm.OLS(y, X).fit()

m1fit.summary()

#Plotting regression plots with confidence interval bands

#MODEL 6- wave 4

X = wave\_4\_g[['X2, 5K Pace', 'X3, Half Pace', 'X4, Gender']]

y = wave\_4\_g['Y, Official Time']

## fit a OLS

X = sm.add\_constant(X)

m1fit = sm.OLS(y, X).fit()

m1fit.summary()

#influence plot

fig3, ax = plt.subplots(figsize=(18,16))

fig3 = sm.graphics.influence\_plot(boston\_fit\_A, ax=ax)

#residuals against X2

resplotvx4 = sns.residplot(boston\_data\_A['X2, 5K Pace'], boston\_data\_A['ABS RES'], lowess=True, color="m")

resplotvx4.axes.set\_title('Absolute Residuals against X2')

resplotvx4.axes.set\_xlabel('X2, 5K Pace')

resplotvx4.axes.set\_ylabel('Absolute Residuals')

#residuals against X3

resplotvx4 = sns.residplot(boston\_data\_A['X3, Half Pace'], boston\_data\_A['ABS RES'], lowess=True, color="slateblue")

resplotvx4.axes.set\_title('Absolute Residuals against X3')

resplotvx4.axes.set\_xlabel('X3, Half Pace')

resplotvx4.axes.set\_ylabel('Absolute Residuals')