summary(historical\_data)

Fighter Opponent Date Country WT\_Class Weight

Length:1046 Length:1046 Min. :2012-01-19 Length:1046 Length:1046 Min. :114.0

Class :character Class :character 1st Qu.:2019-04-28 Class :character Class :character 1st Qu.:135.0

Mode :character Mode :character Median :2021-08-07 Mode :character Mode :character Median :154.0

Mean :2021-01-10 Mean :161.8

3rd Qu.:2023-04-15 3rd Qu.:171.0

Max. :2024-07-27 Max. :265.0

Birthdate Height Team Nickname Stance Reach

Min. :1984-02-12 Min. :61.00 Length:1046 Length:1046 Length:1046 Min. :58.00

1st Qu.:1988-03-17 1st Qu.:67.00 Class :character Class :character Class :character 1st Qu.:69.00

Median :1991-04-22 Median :71.00 Mode :character Mode :character Mode :character Median :71.00

Mean :1991-03-30 Mean :69.93 Mean :71.73

3rd Qu.:1993-09-06 3rd Qu.:73.00 3rd Qu.:75.00

Max. :2000-08-21 Max. :78.00 Max. :81.00

Decision Rnd Time Time\_Seconds Total\_Fight\_Time\_Seconds Event

Length:1046 Min. :1.000 Length:1046 Min. : 7.0 Min. : 8.0 Length:1046

Class :character 1st Qu.:2.000 Class :character 1st Qu.:177.0 1st Qu.: 326.2 Class :character

Mode :character Median :3.000 Mode :character Median :300.0 Median : 900.0 Mode :character

Mean :2.492 Mean :234.7 Mean : 682.4

3rd Qu.:3.000 3rd Qu.:300.0 3rd Qu.: 900.0

Max. :5.000 Max. :300.0 Max. :1500.0

Res Results Decision\_Unanimous KO\_TKO Submission Decision\_Split

Length:1046 Min. :0.000 Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.00000

Class :character 1st Qu.:0.000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.00000

Mode :character Median :1.000 Median :0.0000 Median :0.0000 Median :0.0000 Median :0.00000

Mean :0.631 Mean :0.3939 Mean :0.3203 Mean :0.1683 Mean :0.08126

3rd Qu.:1.000 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.:0.0000 3rd Qu.:0.00000

Max. :1.000 Max. :1.0000 Max. :1.0000 Max. :1.0000 Max. :1.00000

Draw No\_Contest Decision\_Majority TKO\_Doctors\_Stoppage Southpaw\_Stance Orthodox\_Stance

Min. :0.00000 Min. :0.00000 Min. :0.000000 Min. :0.000000 Min. :0.0000 Min. :0.00

1st Qu.:0.00000 1st Qu.:0.00000 1st Qu.:0.000000 1st Qu.:0.000000 1st Qu.:0.0000 1st Qu.:0.00

Median :0.00000 Median :0.00000 Median :0.000000 Median :0.000000 Median :0.0000 Median :1.00

Mean :0.01147 Mean :0.01147 Mean :0.006692 Mean :0.006692 Mean :0.1463 Mean :0.74

3rd Qu.:0.00000 3rd Qu.:0.00000 3rd Qu.:0.000000 3rd Qu.:0.000000 3rd Qu.:0.0000 3rd Qu.:1.00

Max. :1.00000 Max. :1.00000 Max. :1.000000 Max. :1.000000 Max. :1.0000 Max. :1.00

Switch\_Stance Continent Africa Asia Europe South\_America

Min. :0.0000 Length:1046 Min. :0.00000 Min. :0.00000 Min. :0.0000 Min. :0.0000

1st Qu.:0.0000 Class :character 1st Qu.:0.00000 1st Qu.:0.00000 1st Qu.:0.0000 1st Qu.:0.0000

Median :0.0000 Mode :character Median :0.00000 Median :0.00000 Median :0.0000 Median :0.0000

Mean :0.1138 Mean :0.02964 Mean :0.02772 Mean :0.1845 Mean :0.1491

3rd Qu.:0.0000 3rd Qu.:0.00000 3rd Qu.:0.00000 3rd Qu.:0.0000 3rd Qu.:0.0000

Max. :1.0000 Max. :1.00000 Max. :1.00000 Max. :1.0000 Max. :1.0000

North\_America Oceania SDBL SDB\_A SDHL SDH\_A

Min. :0.0000 Min. :0.00000 Min. : 0.000 Min. : 0.0 Min. : 0.00 Min. : 0.00

1st Qu.:0.0000 1st Qu.:0.00000 1st Qu.: 1.000 1st Qu.: 2.0 1st Qu.: 6.00 1st Qu.: 19.00

Median :0.0000 Median :0.00000 Median : 4.000 Median : 7.0 Median : 15.00 Median : 47.00

Mean :0.3795 Mean :0.06883 Mean : 6.979 Mean :10.6 Mean : 22.76 Mean : 64.25

3rd Qu.:1.0000 3rd Qu.:0.00000 3rd Qu.:10.000 3rd Qu.:16.0 3rd Qu.: 31.75 3rd Qu.: 93.00

Max. :1.0000 Max. :1.00000 Max. :60.000 Max. :88.0 Max. :184.00 Max. :387.00

SDLL SDL\_A TSL TS\_A SSL SS\_A

Min. : 0.000 Min. : 0.000 Min. : 0.0 Min. : 0.0 Min. : 0.00 Min. : 0.00

1st Qu.: 1.000 1st Qu.: 1.000 1st Qu.: 28.0 1st Qu.: 52.0 1st Qu.: 19.00 1st Qu.: 40.00

Median : 4.500 Median : 6.000 Median : 59.0 Median :109.5 Median : 40.00 Median : 82.00

Mean : 8.034 Mean : 9.865 Mean : 66.8 Mean :120.8 Mean : 47.73 Mean : 98.33

3rd Qu.:10.000 3rd Qu.: 14.000 3rd Qu.: 96.0 3rd Qu.:176.8 3rd Qu.: 68.00 3rd Qu.:143.00

Max. :95.000 Max. :102.000 Max. :262.0 Max. :449.0 Max. :241.00 Max. :445.00

KD SCBL SCB\_A SCHL SCH\_A SCLL

Min. :0.0000 Min. : 0.000 Min. : 0.000 Min. : 0.000 Min. : 0.000 Min. : 0.0000

1st Qu.:0.0000 1st Qu.: 0.000 1st Qu.: 0.000 1st Qu.: 0.000 1st Qu.: 0.000 1st Qu.: 0.0000

Median :0.0000 Median : 1.000 Median : 1.000 Median : 1.000 Median : 2.000 Median : 0.0000

Mean :0.2753 Mean : 2.088 Mean : 2.402 Mean : 2.342 Mean : 3.768 Mean : 0.2409

3rd Qu.:0.0000 3rd Qu.: 3.000 3rd Qu.: 3.000 3rd Qu.: 3.000 3rd Qu.: 5.000 3rd Qu.: 0.0000

Max. :5.0000 Max. :35.000 Max. :35.000 Max. :33.000 Max. :52.000 Max. :23.0000

SCL\_A RV SR TDL TD\_A TDS

Min. : 0.0000 Min. :0.0000 Min. : 0.0000 Min. : 0.000 Min. : 0.000 Min. :0.00000

1st Qu.: 0.0000 1st Qu.:0.0000 1st Qu.: 0.0000 1st Qu.: 0.000 1st Qu.: 0.000 1st Qu.:0.00000

Median : 0.0000 Median :0.0000 Median : 0.0000 Median : 0.000 Median : 1.000 Median :0.00000

Mean : 0.2648 Mean :0.1205 Mean : 0.7715 Mean : 1.145 Mean : 2.882 Mean :0.07839

3rd Qu.: 0.0000 3rd Qu.:0.0000 3rd Qu.: 0.0000 3rd Qu.: 2.000 3rd Qu.: 4.000 3rd Qu.:0.00000

Max. :23.0000 Max. :3.0000 Max. :100.0000 Max. :14.000 Max. :49.000 Max. :5.00000

SGBL SGB\_A SGHL SGH\_A SGLL SGL\_A

Min. : 0.0000 Min. : 0.0000 Min. : 0.000 Min. : 0.000 Min. : 0.0000 Min. : 0.0000

1st Qu.: 0.0000 1st Qu.: 0.0000 1st Qu.: 0.000 1st Qu.: 0.000 1st Qu.: 0.0000 1st Qu.: 0.0000

Median : 0.0000 Median : 0.0000 Median : 1.000 Median : 1.000 Median : 0.0000 Median : 0.0000

Mean : 0.6224 Mean : 0.7333 Mean : 4.695 Mean : 6.565 Mean : 0.1549 Mean : 0.2008

3rd Qu.: 0.0000 3rd Qu.: 0.0000 3rd Qu.: 5.000 3rd Qu.: 7.750 3rd Qu.: 0.0000 3rd Qu.: 0.0000

Max. :39.0000 Max. :47.0000 Max. :100.000 Max. :112.000 Max. :21.0000 Max. :23.0000

AD ADTB ADHG ADTM ADTS SM

Min. : 0.0000 Min. :0.0000 Min. : 0.0000 Min. : 0.0000 Min. :0.0000 Min. :0.0000

1st Qu.: 0.0000 1st Qu.:0.0000 1st Qu.: 0.0000 1st Qu.: 0.0000 1st Qu.:0.0000 1st Qu.:0.0000

Median : 0.0000 Median :0.0000 Median : 0.0000 Median : 0.0000 Median :0.0000 Median :0.0000

Mean : 0.4273 Mean :0.1367 Mean : 0.1463 Mean : 0.1004 Mean :0.1224 Mean :0.3413

3rd Qu.: 0.0000 3rd Qu.:0.0000 3rd Qu.: 0.0000 3rd Qu.: 0.0000 3rd Qu.:0.0000 3rd Qu.:0.0000

Max. :14.0000 Max. :7.0000 Max. :15.0000 Max. :28.0000 Max. :6.0000 Max. :5.0000

X.Ground\_Body\_Strikes X.Ground\_Head\_Strikes X.Ground\_Leg\_Strikes X.Clinch\_Body\_Strikes X.Clinch\_Head\_Strikes

Min. : 0.00 Min. : 0.00 Min. : 0.000 Min. : 0.0 Min. : 0.00

1st Qu.: 0.00 1st Qu.: 0.00 1st Qu.: 0.000 1st Qu.: 0.0 1st Qu.: 0.00

Median : 0.00 Median : 50.00 Median : 0.000 Median : 50.0 Median : 42.00

Mean : 17.41 Mean : 41.75 Mean : 4.971 Mean : 46.6 Mean : 40.33

3rd Qu.: 0.00 3rd Qu.: 80.00 3rd Qu.: 0.000 3rd Qu.:100.0 3rd Qu.: 74.50

Max. :180.00 Max. :138.00 Max. :100.000 Max. :100.0 Max. :100.00

X.Clinch\_Leg\_Strikes X.LEG X.BODY X.HEAD X.Total\_Strikes X.TK\_ACC

Min. : 0.000 Min. : 0.00 Min. : 0.00 Min. : 0.00 Min. : 0.00 Min. : 0

1st Qu.: 0.000 1st Qu.: 60.00 1st Qu.: 53.00 1st Qu.: 30.00 1st Qu.: 44.00 1st Qu.: 0

Median : 0.000 Median : 83.00 Median : 71.00 Median : 40.00 Median : 54.00 Median : 0

Mean : 9.919 Mean : 70.35 Mean : 66.52 Mean : 40.31 Mean : 53.66 Mean : 26

3rd Qu.: 0.000 3rd Qu.:100.00 3rd Qu.: 86.00 3rd Qu.: 50.00 3rd Qu.: 64.00 3rd Qu.: 50

Max. :100.000 Max. :100.00 Max. :100.00 Max. :100.00 Max. :100.00 Max. :100

X.Significant\_Strikes

Min. : 0.00

1st Qu.: 40.35

Median : 49.24

Mean : 49.45

3rd Qu.: 58.30

Max. :100.00

> # Calculate median values for key numeric variables

> median\_values <- historical\_data %>%

+ summarise(across(where(is.numeric), \(x) median(x, na.rm = TRUE)))

> # Calculate mode values for key numeric variables

> mode\_values <- historical\_data %>%

+ summarise(across(where(is.numeric), ~as.numeric(names(sort(table(.), decreasing = TRUE)[1]))))

> # Calculate variance for key numeric variables

> variance\_values <- historical\_data %>%

+ summarise(across(where(is.numeric), \(x) var(x, na.rm = TRUE)))

> # Display the calculated median, mode, and variance

> print("Median Values:")

[1] "Median Values:"

> print(median\_values)

Weight Height Reach Rnd Time\_Seconds Total\_Fight\_Time\_Seconds Results Decision\_Unanimous KO\_TKO Submission

1 154 71 71 3 300 900 1 0 0 0

Decision\_Split Draw No\_Contest Decision\_Majority TKO\_Doctors\_Stoppage Southpaw\_Stance Orthodox\_Stance

1 0 0 0 0 0 0 1

Switch\_Stance Africa Asia Europe South\_America North\_America Oceania SDBL SDB\_A SDHL SDH\_A SDLL SDL\_A TSL TS\_A

1 0 0 0 0 0 0 0 4 7 15 47 4.5 6 59 109.5

SSL SS\_A KD SCBL SCB\_A SCHL SCH\_A SCLL SCL\_A RV SR TDL TD\_A TDS SGBL SGB\_A SGHL SGH\_A SGLL SGL\_A AD ADTB ADHG ADTM

1 40 82 0 1 1 1 2 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 0

ADTS SM X.Ground\_Body\_Strikes X.Ground\_Head\_Strikes X.Ground\_Leg\_Strikes X.Clinch\_Body\_Strikes

1 0 0 0 50 0 50

X.Clinch\_Head\_Strikes X.Clinch\_Leg\_Strikes X.LEG X.BODY X.HEAD X.Total\_Strikes X.TK\_ACC X.Significant\_Strikes

1 42 0 83 71 40 54 0 49.24242

> print("Mode Values:")

[1] "Mode Values:"

> print(mode\_values)

Weight Height Reach Rnd Time\_Seconds Total\_Fight\_Time\_Seconds Results Decision\_Unanimous KO\_TKO Submission

1 170 71 71 3 300 900 1 0 0 0

Decision\_Split Draw No\_Contest Decision\_Majority TKO\_Doctors\_Stoppage Southpaw\_Stance Orthodox\_Stance

1 0 0 0 0 0 0 1

Switch\_Stance Africa Asia Europe South\_America North\_America Oceania SDBL SDB\_A SDHL SDH\_A SDLL SDL\_A TSL TS\_A SSL

1 0 0 0 0 0 0 0 0 0 1 7 0 0 40 10 10

SS\_A KD SCBL SCB\_A SCHL SCH\_A SCLL SCL\_A RV SR TDL TD\_A TDS SGBL SGB\_A SGHL SGH\_A SGLL SGL\_A AD ADTB ADHG ADTM

1 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

ADTS SM X.Ground\_Body\_Strikes X.Ground\_Head\_Strikes X.Ground\_Leg\_Strikes X.Clinch\_Body\_Strikes

1 0 0 0 0 0 0

X.Clinch\_Head\_Strikes X.Clinch\_Leg\_Strikes X.LEG X.BODY X.HEAD X.Total\_Strikes X.TK\_ACC X.Significant\_Strikes

1 0 0 100 100 50 50 0 50

> print("Variance Values:")

[1] "Variance Values:"

> print(variance\_values)

Weight Height Reach Rnd Time\_Seconds Total\_Fight\_Time\_Seconds Results Decision\_Unanimous KO\_TKO

1 1598.845 16.84062 25.05113 1.157358 7801.058 143258.7 0.2330683 0.2389673 0.2179046

Submission Decision\_Split Draw No\_Contest Decision\_Majority TKO\_Doctors\_Stoppage Southpaw\_Stance

1 0.1400825 0.07472989 0.01135151 0.01135151 0.006653737 0.006653737 0.1249957

Orthodox\_Stance Switch\_Stance Africa Asia Europe South\_America North\_America Oceania SDBL

1 0.1926025 0.1009203 0.0287859 0.0269818 0.1506116 0.1270184 0.235715 0.06415692 59.08855

SDB\_A SDHL SDH\_A SDLL SDL\_A TSL TS\_A SSL SS\_A KD SCBL SCB\_A

1 117.9221 586.2748 3468.529 103.6084 149.7014 2479.116 7176.746 1439.301 5762.221 0.3298599 13.91762 17.52302

SCHL SCH\_A SCLL SCL\_A RV SR TDL TD\_A TDS SGBL SGB\_A SGHL

1 12.58897 29.59287 1.229941 1.333632 0.1538968 58.69511 3.467858 16.52492 0.1469586 6.673528 9.610127 82.08968

SGH\_A SGLL SGL\_A AD ADTB ADHG ADTM ADTS SM X.Ground\_Body\_Strikes

1 161.758 0.9960863 1.45822 1.655481 0.3382299 0.6398282 1.215751 0.2510397 0.55613 1374.889

X.Ground\_Head\_Strikes X.Ground\_Leg\_Strikes X.Clinch\_Body\_Strikes X.Clinch\_Head\_Strikes X.Clinch\_Leg\_Strikes

1 1711.242 440.0681 2177.279 1498.863 851.5216

X.LEG X.BODY X.HEAD X.Total\_Strikes X.TK\_ACC X.Significant\_Strikes

1 1227.082 749.6928 275.2359 291.4984 1218.057 225.0444

> # Count the number of unique fighters

> num\_fighters <- historical\_data %>% distinct(Fighter) %>% nrow()

> # Count the number of unique countries

> num\_countries <- historical\_data %>% distinct(Country) %>% nrow()

> # Get the distribution of fighters by country

> fighters\_by\_country <- historical\_data %>%

+ group\_by(Country) %>%

+ summarise(Num\_Fighters = n\_distinct(Fighter)) %>%

+ arrange(desc(Num\_Fighters))

> # Analyze the time frame of fights

> time\_frame <- range(historical\_data$Date, na.rm = TRUE)

> # results

> list(

+ Number\_of\_Fighters = num\_fighters,

+ Number\_of\_Countries = num\_countries,

+ Fighters\_by\_Country = fighters\_by\_country,

+ Time\_Frame = time\_frame

+ )

$Number\_of\_Fighters

[1] 128

$Number\_of\_Countries

[1] 36

$Fighters\_by\_Country

# A tibble: 36 × 2

Country Num\_Fighters

*<chr>* *<int>*

1 USA 33

2 Brazil 22

3 England 12

4 Australia 7

5 Russia 6

6 Mexico 5

7 Poland 5

8 Georgia 3

9 Ireland 3

10 Canada 2

# ℹ 26 more rows

# ℹ Use `print(n = ...)` to see more rows

$Time\_Frame

[1] "2012-01-19" "2024-07-27"

> # Frequency counts for key categorical columns I picked

> frequency\_counts\_results <- table(historical\_data$Res)

> frequency\_counts\_team <- table(historical\_data$Team)

> frequency\_counts\_continent <- table(historical\_data$Continent)

> frequency\_counts\_country <- table(historical\_data$Country)

> frequency\_counts\_wt\_class <- table(historical\_data$WT\_Class)

> frequency\_counts\_stance <- table(historical\_data$Stance)

> frequency\_counts\_decision <- table(historical\_data$Decision)

> # Display frequency counts

> print("Frequency Counts for Results:")

[1] "Frequency Counts for Results:"

> print(frequency\_counts\_results)

D L W

24 362 660

> print("Frequency Counts for Team:")

[1] "Frequency Counts for Team:"

> print(frequency\_counts\_team)

4oz Fight Club Absolute Mixed Martial Arts

13 13

ADAM Coatzacoalcos Agoge Combatives

1 4

AKA (American Kickboxing Academy) Alliance MMA

5 23

Allstars Training Center American Combat Gym

3 1

American Top Team American Top Team Atlanta

43 3

Ankos MMA Arte Suave Copenhagen

33 9

BKK Fighters Cesar Gracie Jiu-Jitsu

13 3

Chute Boxe Chute Boxe - Diego Lima

3 2

CIT Performance Institute City Kickboxing

7 48

Cobrinha Brazilian Jiu-Jitsu & Fitness Elevation Fight Team

2 67

Entram Gym Evolve MMA

7 5

FactoryX Muay Thai Fearless MMA

20 8

Fight Ready Fighting Nerds

6 13

Fortis MMA Gintas Combat

33 8

Glendale Fighting Club GOR MMA

9 3

Gracie Barra South Jax Gracie Jiu-Jitsu

5 12

Great Britain Top Team Holohan Martial Arts

11 2

House Of Champions Icon MMA

9 27

Igor MMA Jackson-Wink MMA

7 16

K Dojo KHK MMA Team

5 9

Kill Cliff FC Kings MMA

66 10

Law School MMA LifeStyle

1 7

Lions High Performance Centre Lobo Gym MMA

15 32

Marquez MMA MMA Lab

7 26

MMA LAB Next Generation UK

3 19

Nova Uniao NTG Fight & Fitness

4 3

Paragon BJJ Parana Vale Tudo

7 9

Polar Bear Team PRVT

11 27

Range MMA Academy Renegade MMA

5 25

Roufusport RVCA

18 36

Santa Fe Team SBG Ireland

1 2

Serra-Longo Fight Team Shore Mixed Martial Arts Centre of Excellence

13 2

Sikjitsu Syndicate MMA

13 12

Tatsujin Dojo Team Alpha Male

10 15

Team Borracha Team Compton Training Centre

5 2

Team Crossface Team Death Clutch

3 13

Team Figueiredo Team Fish Tank

16 4

Team Kaobon Team Nogueira

12 4

Team Remedy BJJ & MMA Team Thriving Training Center

4 3

Tiger Muay Thai TKMMAFIT

16 1

TriStar Gym Universal Fight Team Rzeszow

7 5

Valle Flow Striking Wajutsu Keishukai Tokyo

19 2

Wilkes Martial Arts Xtreme Couture

4 16

> print("Frequency Counts for Continent:")

[1] "Frequency Counts for Continent:"

> print(frequency\_counts\_continent)

Africa Asia Europe North America Oceania South America

31 75 259 409 72 200

> print("Frequency Counts for Country:")

[1] "Frequency Counts for Country:"

> print(frequency\_counts\_country)

Afghanistan Argentina Australia Bahrain Brazil

5 3 40 2 151

Canada China Cyprus Ecuador England

16 25 1 27 103

Georgia Ireland Israel Jamaica Japan

25 7 2 9 4

Kyrgyzstan Lithuania Mexico Moldova Morocco

16 8 31 11 8

Netherlands New Zealand Nigeria Palestine Peru

3 32 16 19 2

Poland Portugal Romania Russia South Africa

57 7 1 26 7

Spain Suriname Sweden United Arab Emirates USA

7 13 9 1 350

Wales

2

> print("Frequency Counts for WT\_Class:")

[1] "Frequency Counts for WT\_Class:"

> print(frequency\_counts\_wt\_class)

Bantamweight Featherweight Flyweight Heavyweight Light Heavyweight

120 133 64 114 34

Lightweight Middleweight Welterweight Women's Bantamweight Women's Flyweight

118 110 168 30 69

Women's Strawweight

86

> print("Frequency Counts for Stance:")

[1] "Frequency Counts for Stance:"

> print(frequency\_counts\_stance)

Orthodox Southpaw Switch

774 153 119

> print("Frequency Counts for Decision:")

[1] "Frequency Counts for Decision:"

> print(frequency\_counts\_decision)

Decision - Majority Decision - Split Decision - Unanimous Draw

7 85 412 12

KO/TKO No Contest Submission TKO - Doctor's Stoppage

335 12 176 7

> # Correlation matrix for numeric variables

> correlation\_matrix <- cor(historical\_data[sapply(historical\_data, is.numeric)])

> # View the correlation matrix

> print("Correlation Matrix:")

[1] "Correlation Matrix:"

> print(correlation\_matrix)

Weight Height Reach Rnd Time\_Seconds

Weight 1.0000000000 0.809832370 0.773535038 -0.1175287652 -0.1957305510

Height 0.8098323701 1.000000000 0.927106186 -0.0808559475 -0.1817163305

Reach 0.7735350380 0.927106186 1.000000000 -0.0744050299 -0.1806207676

Rnd -0.1175287652 -0.080855948 -0.074405030 1.0000000000 0.5489326375

Time\_Seconds -0.1957305510 -0.181716331 -0.180620768 0.5489326375 1.0000000000

Total\_Fight\_Time\_Seconds -0.1458910083 -0.111349935 -0.105593604 0.9807926477 0.7014276156

Results -0.0037324226 0.002674607 0.008540775 -0.0164944558 0.0007840607

Decision\_Unanimous -0.0939557599 -0.090071713 -0.093683585 0.5607177552 0.5943390916

KO\_TKO 0.2239605945 0.205860229 0.200953701 -0.5010370120 -0.5625106754

Submission -0.0615430925 -0.056316202 -0.030845264 -0.2986303695 -0.2449969655

Decision\_Split -0.1279807370 -0.111227333 -0.118899249 0.2119911798 0.2201525198

Draw -0.0380604415 -0.013588088 -0.022885862 0.1009515918 0.0797455110

No\_Contest 0.0203414502 0.034562372 0.020182105 -0.0493264419 -0.1002465330

Decision\_Majority 0.0086528081 -0.018691010 -0.028375410 0.0823696982 0.0607599122

Total\_Fight\_Time\_Seconds Results Decision\_Unanimous KO\_TKO Submission

Weight -0.145891008 -0.0037324226 -0.0939557599 0.2239605945 -0.061543093

Height -0.111349935 0.0026746065 -0.0900717131 0.2058602290 -0.056316202

Reach -0.105593604 0.0085407755 -0.0936835855 0.2009537008 -0.030845264

Rnd 0.980792648 -0.0164944558 0.5607177552 -0.5010370120 -0.298630369

Time\_Seconds 0.701427616 0.0007840607 0.5943390916 -0.5625106754 -0.244996966

Total\_Fight\_Time\_Seconds 1.000000000 -0.0138818041 0.6168139242 -0.5584970445 -0.311812294

Results -0.013881804 1.0000000000 0.0204292187 0.0451096449 0.015614669

Decision\_Unanimous 0.616813924 0.0204292187 1.0000000000 -0.5533393839 -0.362577364

KO\_TKO -0.558497045 0.0451096449 -0.5533393839 1.0000000000 -0.308733894

Submission -0.311812294 0.0156146692 -0.3625773635 -0.3087338941 1.000000000

Decision\_Split 0.232137777 -0.0190909332 -0.2397462087 -0.2041434134 -0.133765611

Draw 0.104690069 -0.1408668065 -0.0868429030 -0.0739465568 -0.048453713

No\_Contest -0.065453480 -0.1408668065 -0.0868429030 -0.0739465568 -0.048453713

Decision\_Majority 0.084414974 0.0141712259 -0.0661675761 -0.0563415576 -0.036917982

Decision\_Split Draw No\_Contest Decision\_Majority TKO\_Doctors\_Stoppage

Weight -0.127980737 -0.038060442 0.020341450 8.652808e-03 0.0071858501

Height -0.111227333 -0.013588088 0.034562372 -1.869101e-02 -0.0158322888

Reach -0.118899249 -0.022885862 0.020182105 -2.837541e-02 -0.0166559601

Rnd 0.211991180 0.100951592 -0.049326442 8.236970e-02 0.0169409897

Time\_Seconds 0.220152520 0.079745511 -0.100246533 6.075991e-02 0.0096229564

Total\_Fight\_Time\_Seconds 0.232137777 0.104690069 -0.065453480 8.441497e-02 0.0166910870

Results -0.019090933 -0.140866806 -0.140866806 1.417123e-02 -0.0344291095

Decision\_Unanimous -0.239746209 -0.086842903 -0.086842903 -6.616758e-02 -0.0661675761

KO\_TKO -0.204143413 -0.073946557 -0.073946557 -5.634156e-02 -0.0563415576

Submission -0.133765611 -0.048453713 -0.048453713 -3.691798e-02 -0.0369179820

Decision\_Split 1.000000000 -0.032038939 -0.032038939 -2.441119e-02 -0.0244111936

Draw -0.032038939 1.000000000 -0.011605416 -8.842429e-03 -0.0088424294

No\_Contest -0.032038939 -0.011605416 1.000000000 -8.842429e-03 -0.0088424294

Decision\_Majority -0.024411194 -0.008842429 -0.008842429 1.000000e+00 -0.0067372474

Southpaw\_Stance Orthodox\_Stance Switch\_Stance Africa Asia Europe

Weight 3.124757e-02 0.0070352228 -0.0444945304 0.0553797291 0.024503383 0.150475969

Height 2.644374e-02 -0.1110198907 0.1239413220 0.1636159733 0.070857017 0.112800832

Reach -1.546917e-02 -0.0629911900 0.1042361806 0.1852456933 -0.029277920 0.075975427

Rnd 2.432969e-02 -0.0812362723 0.0851488673 0.1244478984 -0.055658512 -0.032143232

Time\_Seconds -8.288386e-03 -0.0140267597 0.0286017395 0.0501828228 0.006077903 -0.022654235

Total\_Fight\_Time\_Seconds 1.881172e-02 -0.0725431107 0.0792805056 0.1178267046 -0.046041524 -0.032694898

Results 2.500965e-02 -0.0197590228 -0.0005368631 0.0518695790 -0.039801001 0.021563054

Decision\_Unanimous 9.612828e-03 -0.0127759628 0.0069514503 0.0321868282 -0.040787803 0.050344739

KO\_TKO -5.803875e-03 0.0005269506 0.0057311947 0.0008663436 0.083768800 -0.020134269

Submission -5.378884e-03 0.0277703518 -0.0323777319 -0.0484647703 -0.044820793 0.023228533

Decision\_Split 5.613220e-03 -0.0151291866 0.0146535424 0.0099216285 0.013711483 -0.069305810

Draw 6.217526e-03 -0.0384660586 0.0462202053 0.0341110538 -0.018191515 -0.028099569

No\_Contest 6.217526e-03 0.0024652713 -0.0103252155 -0.0188268724 -0.018191515 -0.004956144

Decision\_Majority -7.930705e-04 0.0219268155 -0.0294086345 -0.0143446208 -0.013860528 0.021414515

South\_America North\_America Oceania SDBL SDB\_A SDHL

Weight -0.1867944570 -0.0570007794 0.068061613 -0.144181670 -1.802173e-01 -0.1587872532

Height -0.3027468574 0.0481202879 0.022785037 -0.077521218 -1.066265e-01 -0.1378271989

Reach -0.2649000765 0.0391477742 0.049426113 -0.083321478 -1.115996e-01 -0.1285512804

Rnd -0.0544264727 0.0009826242 -0.043719398 0.472338479 5.026847e-01 0.4891887170

Time\_Seconds 0.0102321878 -0.0196399062 -0.047428689 0.331049262 3.631562e-01 0.3577478925

Total\_Fight\_Time\_Seconds -0.0440215468 -0.0037451812 -0.048347088 0.480013324 5.133817e-01 0.5006117134

Results 0.0532138124 -0.0551048666 -0.026843620 0.032460272 1.195338e-02 0.0966386290

Decision\_Unanimous -0.0134322882 -0.0458476516 -0.056877296 0.264507777 3.001188e-01 0.2951466853

KO\_TKO 0.0002199609 -0.0470637466 0.072360501 -0.234404001 -2.704762e-01 -0.2547185123

Submission 0.0269126049 0.0537193634 -0.021346341 -0.180708421 -1.930679e-01 -0.2164973017

Decision\_Split 0.0129959380 0.0197485797 0.029701571 0.153370265 1.682082e-01 0.1823281306

Draw -0.0199008604 0.0452409844 0.006169852 0.038853308 5.605477e-02 0.0325854588

No\_Contest -0.0451021920 0.0637406207 -0.029289848 0.013147704 5.601523e-03 -0.0382644908

Decision\_Majority -0.0014475839 0.0082931602 -0.022316599 0.007855478 -2.334157e-04 0.0419872313

SDH\_A SDLL SDL\_A TSL TS\_A SSL

Weight -0.173614902 -0.081642602 -8.996997e-02 -0.1636942020 -0.187948814 -0.166072492

Height -0.154966781 -0.046336437 -5.186427e-02 -0.1747680337 -0.186604163 -0.151387796

Reach -0.138766258 -0.053330757 -5.986679e-02 -0.1576173169 -0.168614496 -0.143745794

Rnd 0.567075631 0.408825741 4.171130e-01 0.6304694190 0.687764263 0.588942858

Time\_Seconds 0.416203337 0.284369836 2.940912e-01 0.4639269592 0.509835312 0.424757200

Total\_Fight\_Time\_Seconds 0.580666473 0.414963364 4.242984e-01 0.6458586730 0.705426722 0.601308669

Results 0.041016701 0.035497299 2.445753e-02 0.1969859453 0.134021768 0.164447128

Decision\_Unanimous 0.338860277 0.258439087 2.597549e-01 0.3925322384 0.429507739 0.365042621

KO\_TKO -0.317827830 -0.196468763 -2.043813e-01 -0.3453270701 -0.388444900 -0.289540988

Submission -0.230396072 -0.176346516 -1.785158e-01 -0.2267886142 -0.257757079 -0.256557552

Decision\_Split 0.227570677 0.125207238 1.391774e-01 0.1562286719 0.212541032 0.178657019

Draw 0.037667867 0.015518548 2.467803e-02 0.0866622637 0.078613657 0.040549950

No\_Contest -0.043159798 -0.037424703 -4.065516e-02 -0.0446604177 -0.052322612 -0.049886669

Decision\_Majority 0.032119515 0.010095133 -5.408269e-05 0.0863320798 0.060578387 0.040172686

SS\_A KD SCBL SCB\_A SCHL SCH\_A

Weight -1.845801e-01 0.105356516 -0.143641204 -0.154008727 -0.0234031559 -0.026909872

Height -1.665667e-01 0.086885994 -0.159073665 -0.159442654 -0.0868437840 -0.092977233

Reach -1.532100e-01 0.095846579 -0.178711761 -0.184434550 -0.1014747305 -0.113020719

Rnd 6.289204e-01 -0.149916166 0.231686811 0.225820966 0.2441164062 0.261074095

Time\_Seconds 4.623521e-01 -0.192873547 0.191157027 0.188141669 0.1806425119 0.208908288

Total\_Fight\_Time\_Seconds 6.441703e-01 -0.172840944 0.242165947 0.236460512 0.2503110112 0.271366724

Results 9.365417e-02 0.273612746 0.009006099 0.006799483 0.0749222952 0.057690382

Decision\_Unanimous 3.879795e-01 -0.175320441 0.190875617 0.188540469 0.1798557171 0.201052674

KO\_TKO -3.372433e-01 0.359655241 -0.188184477 -0.186500616 -0.1176663460 -0.141757757

Submission -2.613283e-01 -0.131142466 -0.101074645 -0.095793740 -0.1334825881 -0.139173132

Decision\_Split 2.218648e-01 -0.087788582 0.089632636 0.083447540 0.0423332860 0.060325202

Draw 4.532464e-02 0.010884080 0.035979676 0.034695008 0.0680769007 0.049181431

No\_Contest -5.323676e-02 -0.051669477 -0.019393856 -0.016799818 -0.0508991602 -0.044929079

Decision\_Majority 2.978160e-02 -0.039368146 0.023220901 0.025734287 -0.0013086529 0.007820032

SCLL SCL\_A RV SR TDL TD\_A

Weight -0.026915385 -0.034524173 -0.073214434 0.0185334933 -0.0265714462 -0.0759642138

Height -0.042552288 -0.043964287 -0.043801460 0.0721431276 -0.0756295780 -0.1067024898

Reach -0.036172228 -0.040902341 -0.050642263 0.0657665870 -0.0714448672 -0.1040025042

Rnd 0.065710772 0.061326216 0.140498671 -0.0037534155 0.2508493335 0.3250650435

Time\_Seconds 0.071767211 0.064959283 0.126244277 -0.0176414207 0.1883773898 0.2678358165

Total\_Fight\_Time\_Seconds 0.072778565 0.067451208 0.149262433 -0.0073172310 0.2578571251 0.3396826033

Results 0.062545596 0.062168611 -0.022751837 -0.0016033135 0.2076588120 0.1017202600

Decision\_Unanimous 0.073679081 0.060845500 0.121610720 -0.0063526565 0.1935567758 0.2467710170

KO\_TKO -0.051215918 -0.045646204 -0.116811510 -0.0600593728 -0.2187134393 -0.2751445197

Submission -0.047034038 -0.041197813 -0.033895662 0.0958509901 -0.0076550299 -0.0712635443

Decision\_Split 0.030055364 0.034830139 0.033560188 -0.0039195983 0.0294150637 0.1059144352

Draw -0.007216038 -0.001382993 0.035590233 -0.0108537281 0.0157050414 0.0119556153

No\_Contest -0.015314725 -0.016937950 -0.033094977 -0.0108537281 -0.0035873524 -0.0079295724

Decision\_Majority -0.017839209 -0.018831245 0.004688655 -0.0082697014 -0.0001084079 0.0110331876

TDS SGBL SGB\_A SGHL SGH\_A SGLL

Weight -5.216016e-02 -0.037484463 -0.044602011 -0.0007079212 -0.0120691525 0.036916644

Height -1.080259e-01 -0.070322748 -0.069835670 -0.0155720806 -0.0243302985 -0.014559245

Reach -9.666270e-02 -0.072298391 -0.078418155 -0.0041002840 -0.0154852257 0.001308372

Rnd 7.802657e-02 0.071096462 0.074995413 0.0656857013 0.0746958503 0.091120910

Time\_Seconds 9.704448e-02 0.082964968 0.088860712 0.0275495568 0.0444317392 0.028970481

Total\_Fight\_Time\_Seconds 8.917877e-02 0.079983973 0.084684395 0.0624387963 0.0740612550 0.084458894

Results 4.270972e-02 0.132923092 0.116399008 0.2735303085 0.2640259761 0.055176930

Decision\_Unanimous 8.017967e-02 0.109560619 0.118647976 0.0267151688 0.0468234871 0.045487209

KO\_TKO -6.557112e-02 -0.080540488 -0.084409402 0.0219845622 0.0099484681 -0.073704700

Submission -3.199582e-02 0.003427131 -0.004169528 -0.0170233541 -0.0300421244 -0.021155572

Decision\_Split 3.046722e-02 -0.045938636 -0.045538400 -0.0521885315 -0.0498246436 0.006438098

Draw -2.204057e-02 -0.005105504 -0.002315618 0.0115584143 0.0199287107 0.028271198

No\_Contest -2.204057e-02 -0.022489478 -0.022596661 -0.0320595310 -0.0330358315 0.100265532

Decision\_Majority -1.679321e-02 -0.006160612 -0.008071500 0.0234811508 0.0129550094 0.069537817

SGL\_A AD ADTB ADHG ADTM ADTS

Weight 0.010697399 0.014774113 0.006110289 -3.699144e-02 0.009688756 -0.072827743

Height -0.042318396 -0.011329625 0.064326890 -1.075932e-02 0.027689143 -0.115680030

Reach -0.028528158 0.003111288 0.079126285 1.289486e-03 0.034057077 -0.106604872

Rnd 0.094732736 0.091891209 0.063616729 6.079511e-02 0.034127097 0.012389958

Time\_Seconds 0.041123572 0.075418629 0.035676147 4.321543e-02 0.027255262 0.005790638

Total\_Fight\_Time\_Seconds 0.090374666 0.095954613 0.062570967 6.192431e-02 0.035460204 0.011916149

Results 0.066471333 0.124715042 0.098058283 4.574683e-02 0.010332539 0.091921461

Decision\_Unanimous 0.058820522 0.082058376 0.019101639 3.851066e-02 0.006466740 -0.009442535

KO\_TKO -0.080222828 -0.091070548 -0.083886104 -7.176153e-02 -0.040211167 -0.073622972

Submission -0.021881359 0.017462560 0.048090132 1.040814e-02 -0.001547366 0.135037661

Decision\_Split 0.005609239 0.007280239 0.056456260 -1.064783e-02 -0.020739293 -0.016778505

Draw 0.026707870 -0.007874899 0.005551456 1.711769e-01 0.226416243 -0.008397499

No\_Contest 0.078772573 -0.021836160 -0.009892223 -1.970907e-02 -0.009812357 -0.026323589

Decision\_Majority 0.064066494 -0.027274867 -0.019303998 -1.501679e-02 -0.007476257 -0.020056539

SM X.Ground\_Body\_Strikes X.Ground\_Head\_Strikes X.Ground\_Leg\_Strikes

Weight -0.1172273420 -0.002197750 -0.0388752062 -0.0409949996

Height -0.0905087350 -0.014059142 -0.0611646535 -0.0748876021

Reach -0.0759937236 -0.004503445 -0.0556975605 -0.0585222018

Rnd -0.0092674515 0.088659251 0.0728505981 0.0892048246

Time\_Seconds 0.0138298465 0.104222756 0.0408295691 0.0730702411

Total\_Fight\_Time\_Seconds -0.0046750677 0.099920307 0.0716472317 0.0931159347

Results 0.1481615408 0.177855577 0.2897441914 0.0915533443

Decision\_Unanimous -0.0304909460 0.091186918 -0.0003420179 0.0718359288

KO\_TKO -0.2015937089 -0.073974870 0.0461459495 -0.0845674863

Submission 0.3151855888 -0.017067436 -0.0266537213 -0.0347299227

Decision\_Split -0.0188255930 -0.031156456 -0.0338811257 0.0387867574

Draw 0.0108925134 0.058390189 0.0067419475 0.0386809379

No\_Contest -0.0252393122 -0.026389334 -0.0243062984 0.0172733924

Decision\_Majority -0.0218522761 0.024714694 0.0158188364 0.0291922680

X.Clinch\_Body\_Strikes X.Clinch\_Head\_Strikes X.Clinch\_Leg\_Strikes X.LEG

Weight -8.791877e-02 -0.0512083959 -0.021284110 -0.0609576597

Height -1.235839e-01 -0.0647760038 -0.063997618 -0.0456928807

Reach -1.498130e-01 -0.0778975439 -0.068677777 -0.0439520854

Rnd 2.548126e-01 0.2542287094 0.106379713 0.2310320199

Time\_Seconds 2.249890e-01 0.1794802030 0.121179827 0.2162855101

Total\_Fight\_Time\_Seconds 2.697801e-01 0.2586625088 0.118987497 0.2474714541

Results -7.668258e-03 0.0364453358 0.039304959 0.0380795591

Decision\_Unanimous 1.737190e-01 0.1331672882 0.070134599 0.1384785791

KO\_TKO -1.851246e-01 -0.1144900257 -0.101567331 -0.0739273971

Submission -1.000544e-01 -0.0983592742 -0.039051209 -0.1383920608

Decision\_Split 1.119158e-01 0.0751636666 0.092718435 0.0602085433

Draw 5.596971e-02 0.0640506135 0.009533937 0.0171367149

No\_Contest -2.102480e-02 -0.0621538559 -0.005855721 0.0055986636

Decision\_Majority 1.603634e-02 0.0299134266 -0.027913065 -0.0051672443

X.BODY X.HEAD X.Total\_Strikes X.TK\_ACC X.Significant\_Strikes

Weight -0.0029161829 0.0556793699 0.0820112979 -0.076227089 0.060772950

Height -0.0284019403 0.0134330591 0.0221849145 -0.116849421 0.019392757

Reach -0.0369808504 -0.0057505213 0.0147691081 -0.111904414 -0.010047881

Rnd 0.1245444856 -0.1008515098 -0.0211130151 0.113264628 -0.103947173

Time\_Seconds 0.1400037147 -0.1332519964 -0.0009383054 0.083911404 -0.113061578

Total\_Fight\_Time\_Seconds 0.1388691788 -0.1170907119 -0.0182219564 0.116161484 -0.115018848

Results 0.0549363913 0.3434299172 0.1987037286 0.232716025 0.278452036

Decision\_Unanimous 0.0372162505 -0.0944648959 -0.0145150421 0.075365279 -0.090251824

KO\_TKO -0.0567655480 0.1670153521 -0.0139309232 -0.163781161 0.150349604

Submission -0.0380088988 -0.0407409280 0.0672995128 0.118659574 -0.024041449

Decision\_Split 0.0437943904 -0.0558593217 -0.0516322088 -0.020670787 -0.057758009

Draw 0.0169673036 0.0109497987 0.0258395090 0.041436192 -0.001186445

No\_Contest 0.0359931128 -0.0199090072 -0.0109849849 -0.027533424 0.005632949

Decision\_Majority 0.0258529522 0.0302638843 0.0476878640 -0.016468494 0.020923072

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