

# Logistic Regression

Caitlin Tuttle

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.4      v readr      2.1.5
v forcats    1.0.0      v stringr    1.5.1
v ggplot2    3.4.4      v tibble     3.2.1
v lubridate  1.9.3      v tidyr      1.3.0
v purrr      1.0.2

-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
-- Attaching packages ----- tidymodels 1.1.1 --

v broom      1.0.5      v rsample     1.2.0
v dials      1.2.0      v tune        1.1.2
v infer      1.0.6      v workflows   1.1.3
v modeldata  1.2.0      v workflowsets 1.0.1
v parsnip    1.1.1      v yardstick   1.2.0
v recipes    1.0.9

-- Conflicts ----- tidymodels_conflicts() --
x scales::discard() masks purrr::discard()
x dplyr::filter()   masks stats::filter()
x recipes::fixed()  masks stringr::fixed()
x dplyr::lag()       masks stats::lag()
x yardstick::spec() masks readr::spec()
x recipes::step()    masks stats::step()
* Search for functions across packages at https://www.tidymodels.org/find/

setwd("~/Downloads")
eda <- read_csv("Wimbledon_featured_matches.csv", show_col_types = FALSE)
```

```
library(glmnet)
```

Loading required package: Matrix

Attaching package: 'Matrix'

The following objects are masked from 'package:tidyr':

expand, pack, unpack

Loaded glmnet 4.1-8

```
library(mice)
```

Attaching package: 'mice'

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

filter

The following objects are masked from 'package:base':

cbind, rbind

```
library(missForest)
```

```
library(glmnet)
```

```
library(mice)
```

```
library(missForest)
```

```
library(dplyr)
```

```
library(dplyr)
```

```
library(missForest)
```

```
# Assuming 'eda' is your dataframe
```

```
exclude_cols1 <- c("point_victor")
```

```

# Remove rows with missing values
eda <- na.omit(eda)

# Convert 'point_victor' to numeric if it's not already
eda$point_victor <- as.numeric(as.character(eda$point_victor))

# Replace missing values in 'elapsed_time' with the mean
eda$elapsed_time[is.na(eda$elapsed_time)] <- mean(eda$elapsed_time, na.rm = TRUE)

# Convert all variables to factors or numeric as needed
eda[] <- lapply(eda, function(x) if (is.character(x)) as.factor(x) else x)

# Split the data into predictors (X) and response variable (y)
X <- as.matrix(eda[, -which(names(eda) %in% exclude_cols1)]) # Exclude specified columns
y <- as.numeric(as.character(eda$point_victor)) # Response variable as numeric

# Check for missing values in X and y
if (any(is.na(X)) || any(is.na(y))) {
  stop("Missing values found in predictors (X) or response variable (y). Handle them appro
}

chosen_lambda <- 0.01

# Fit LASSO regression with the chosen lambda
lasso_model <- glmnet(X, y, alpha = 1)

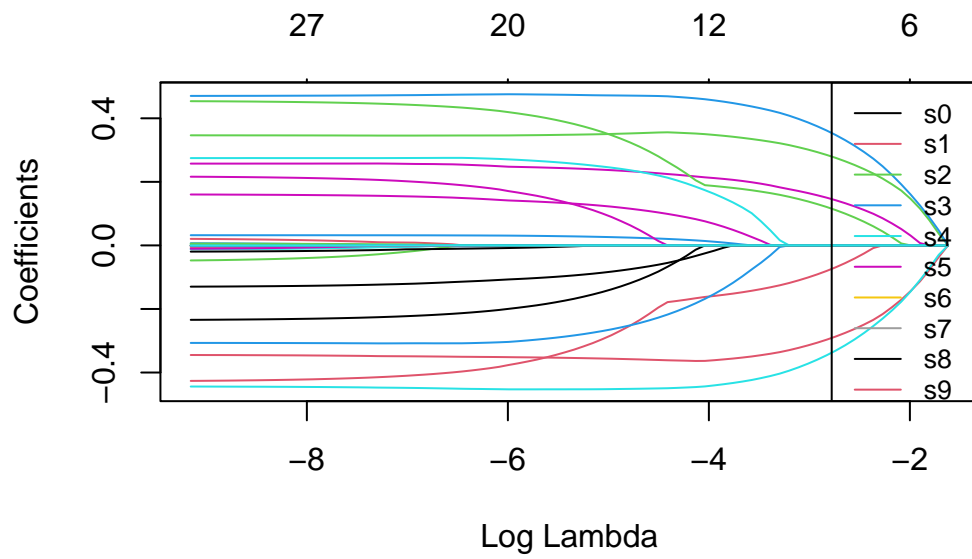
```

Warning in storage.mode(xd) <- "double": NAs introduced by coercion

```

plot(lasso_model, xvar = "lambda", label = FALSE)
legend("topright", legend = colnames(lasso_model$beta), col = 1:ncol(lasso_model$beta), lty

```



```
print(lasso_model)
```

Call: `glmnet(x = X, y = y, alpha = 1)`

	Df	%Dev	Lambda
1	0	0.00	0.197900
2	4	7.69	0.180300
3	4	15.37	0.164300
4	5	22.12	0.149700
5	5	28.55	0.136400
6	6	33.95	0.124300
7	6	38.61	0.113300
8	6	42.47	0.103200
9	7	45.76	0.094030
10	7	48.59	0.085670
11	7	50.94	0.078060
12	7	52.89	0.071130
13	7	54.50	0.064810
14	7	55.85	0.059050
15	7	56.96	0.053810
16	7	57.89	0.049030

17	7	58.66	0.044670
18	7	59.30	0.040700
19	9	59.89	0.037090
20	10	60.49	0.033790
21	10	61.02	0.030790
22	10	61.46	0.028050
23	11	61.86	0.025560
24	11	62.18	0.023290
25	12	62.47	0.021220
26	12	62.71	0.019340
27	12	62.91	0.017620
28	13	63.18	0.016050
29	13	63.45	0.014630
30	13	63.68	0.013330
31	13	63.87	0.012140
32	14	64.09	0.011070
33	14	64.30	0.010080
34	14	64.48	0.009187
35	15	64.63	0.008370
36	15	64.75	0.007627
37	16	64.86	0.006949
38	16	64.94	0.006332
39	17	65.02	0.005769
40	17	65.08	0.005257
41	17	65.14	0.004790
42	17	65.18	0.004364
43	17	65.22	0.003977
44	17	65.25	0.003623
45	17	65.27	0.003301
46	17	65.29	0.003008
47	17	65.31	0.002741
48	20	65.33	0.002497
49	20	65.38	0.002276
50	20	65.42	0.002073
51	20	65.46	0.001889
52	20	65.49	0.001721
53	22	65.53	0.001568
54	24	65.58	0.001429
55	24	65.62	0.001302
56	24	65.66	0.001186
57	24	65.69	0.001081
58	23	65.72	0.000985
59	24	65.74	0.000897

```

60 24 65.76 0.000818
61 24 65.78 0.000745
62 27 65.79 0.000679
63 27 65.81 0.000619
64 27 65.82 0.000564
65 27 65.83 0.000514
66 27 65.84 0.000468
67 27 65.84 0.000426
68 27 65.85 0.000388
69 27 65.85 0.000354
70 27 65.86 0.000323
71 27 65.86 0.000294
72 27 65.87 0.000268
73 27 65.87 0.000244
74 27 65.87 0.000222
75 27 65.87 0.000203
76 27 65.87 0.000185
77 27 65.88 0.000168
78 27 65.88 0.000153
79 27 65.88 0.000140
80 27 65.88 0.000127
81 28 65.88 0.000116
82 28 65.88 0.000106

```

```
coef(lasso_model, s = 0.1)
```

```
46 x 1 sparse Matrix of class "dgCMatrix"
```

```

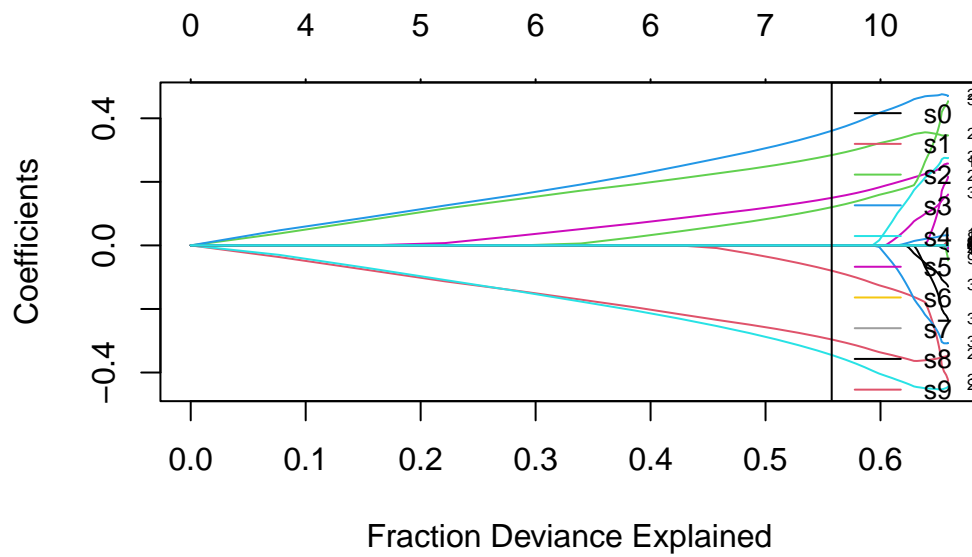
              s1
(Intercept)  1.346617215
match_id     .
player1      .
player2      .
elapsed_time .
set_no       .
game_no      .
point_no     .
p1_sets      .
p2_sets      .
p1_games     .
p2_games     .
p1_score     .

```

p2_score	.
server	0.090322066
serve_no	.
p1_points_won	.
p2_points_won	.
game_victor	.
set_victor	.
p1_ace	.
p2_ace	.
p1_winner	-0.222489310
p2_winner	0.215913036
winner_shot_type	.
p1_double_fault	.
p2_double_fault	.
p1_unf_err	0.257321435
p2_unf_err	-0.238452696
p1_net_pt	.
p2_net_pt	.
p1_net_pt_won	-0.002923491
p2_net_pt_won	0.049554078
p1_break_pt	.
p2_break_pt	.
p1_break_pt_won	.
p2_break_pt_won	.
p1_break_pt_missed	.
p2_break_pt_missed	.
p1_distance_run	.
p2_distance_run	.
rally_count	.
speed_mph	.
serve_width	.
serve_depth	.
return_depth	.

```
plot(lasso_model, xvar = "dev", label = TRUE)
```

```
legend("topright", legend = colnames(lasso_model$beta), col = 1:ncol(lasso_model$beta), lt
```



```
lasso_coefficients <- coef(lasso_model)
cat("LASSO Coefficients:\n")
```

LASSO Coefficients:

```
lasso_coefficients_matrix <- as.matrix(lasso_coefficients)
print(lasso_coefficients_matrix)
```

	s0	s1	s2	s3	s4
(Intercept)	1.482885	1.48149530	1.48251091	1.472339375	1.43809567
match_id	0.000000	0.00000000	0.00000000	0.000000000	0.00000000
player1	0.000000	0.00000000	0.00000000	0.000000000	0.00000000
player2	0.000000	0.00000000	0.00000000	0.000000000	0.00000000
elapsed_time	0.000000	0.00000000	0.00000000	0.000000000	0.00000000
set_no	0.000000	0.00000000	0.00000000	0.000000000	0.00000000
game_no	0.000000	0.00000000	0.00000000	0.000000000	0.00000000
point_no	0.000000	0.00000000	0.00000000	0.000000000	0.00000000
p1_sets	0.000000	0.00000000	0.00000000	0.000000000	0.00000000
p2_sets	0.000000	0.00000000	0.00000000	0.000000000	0.00000000
p1_games	0.000000	0.00000000	0.00000000	0.000000000	0.00000000



p2_games	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_score	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_score	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
server	0.000000	0.00000000	0.00000000	0.007371245	0.03067547	
serve_no	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_points_won	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_points_won	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
game_victor	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
set_victor	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_ace	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_ace	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_winner	0.000000	-0.03663428	-0.07715717	-0.113056468	-0.14345294	
p2_winner	0.000000	0.03739731	0.07912788	0.115834280	0.14633033	
winner_shot_type	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_double_fault	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_double_fault	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_unf_err	0.000000	0.04732759	0.08817251	0.125555372	0.15999378	
p2_unf_err	0.000000	-0.02978277	-0.07092727	-0.108940937	-0.14475357	
p1_net_pt	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_net_pt	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_net_pt_won	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_net_pt_won	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_break_pt	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_break_pt	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_break_pt_won	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_break_pt_won	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_break_pt_missed	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_break_pt_missed	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p1_distance_run	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
p2_distance_run	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
rally_count	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
speed_mph	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
serve_width	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
serve_depth	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
return_depth	0.000000	0.00000000	0.00000000	0.000000000	0.00000000	
		s5	s6	s7	s8	s9
(Intercept)	1.40711835	1.37935860	1.35406970	1.332680655	1.31508852	
match_id	0.00000000	0.00000000	0.00000000	0.000000000	0.00000000	0.00000000
player1	0.00000000	0.00000000	0.00000000	0.000000000	0.00000000	0.00000000
player2	0.00000000	0.00000000	0.00000000	0.000000000	0.00000000	0.00000000
elapsed_time	0.00000000	0.00000000	0.00000000	0.000000000	0.00000000	0.00000000
set_no	0.00000000	0.00000000	0.00000000	0.000000000	0.00000000	0.00000000
game_no	0.00000000	0.00000000	0.00000000	0.000000000	0.00000000	0.00000000

point_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_sets	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_sets	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_games	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_games	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_score	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_score	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
server	0.05142592	0.06920487	0.08540349	0.099520068	0.11165097
serve_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_points_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_points_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
game_victor	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
set_victor	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_ace	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_ace	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_winner	-0.17073206	-0.19448692	-0.21614157	-0.234359937	-0.24927649
p2_winner	0.17242322	0.19226869	0.21034352	0.226328344	0.24031292
winner_shot_type	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_double_fault	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_double_fault	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_unf_err	0.19175585	0.22166546	0.24891277	0.273046101	0.29422366
p2_unf_err	-0.17684711	-0.20477629	-0.23022765	-0.253833976	-0.27583253
p1_net_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_net_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_net_pt_won	0.00000000	0.00000000	0.00000000	-0.008390578	-0.02560389
p2_net_pt_won	0.00603960	0.02584872	0.04389903	0.060129332	0.07467159
p1_break_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_break_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_break_pt_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_break_pt_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_break_pt_missed	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_break_pt_missed	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_distance_run	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_distance_run	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
rally_count	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
speed_mph	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
serve_width	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
serve_depth	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
return_depth	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
	s10	s11	s12	s13	s14
(Intercept)	1.29906010	1.28445560	1.27114852	1.25902361	1.24797584
match_id	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
player1	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

player2	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
elapsed_time	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
set_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
game_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
point_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_sets	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_sets	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_games	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_games	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_score	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_score	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
server	0.12270285	0.13277292	0.14194839	0.15030874	0.15792637
serve_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_points_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_points_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
game_victor	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
set_victor	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_ace	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_ace	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_winner	-0.26286738	-0.27525090	-0.28653430	-0.29681531	-0.30618299
p2_winner	0.25305932	0.26467338	0.27525567	0.28489786	0.29368347
winner_shot_type	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_double_fault	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_double_fault	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_unf_err	0.31352243	0.33110675	0.34712892	0.36172774	0.37502963
p2_unf_err	-0.29587483	-0.31413663	-0.33077611	-0.34593738	-0.35975176
p1_net_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_net_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_net_pt_won	-0.04128768	-0.05557816	-0.06859912	-0.08046334	-0.09127357
p2_net_pt_won	0.08792124	0.09999384	0.11099394	0.12101682	0.13014929
p1_break_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_break_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_break_pt_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_break_pt_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_break_pt_missed	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_break_pt_missed	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_distance_run	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_distance_run	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
rally_count	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
speed_mph	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
serve_width	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
serve_depth	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
return_depth	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

	s15	s16	s17	s18	s19
(Intercept)	1.2379095	1.2287375	1.2203802	1.211841798	1.202634094
match_id	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
player1	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
player2	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
elapsed_time	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
set_no	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
game_no	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
point_no	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_sets	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p2_sets	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_games	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p2_games	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_score	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p2_score	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
server	0.1648673	0.1711916	0.1769540	0.182739383	0.188974877
serve_no	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_points_won	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p2_points_won	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
game_victor	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
set_victor	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_ace	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p2_ace	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_winner	-0.3147185	-0.3224957	-0.3295820	-0.335802878	-0.340954845
p2_winner	0.3016886	0.3089825	0.3156285	0.321450290	0.326323734
winner_shot_type	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_double_fault	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p2_double_fault	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_unf_err	0.3871498	0.3981933	0.4082557	0.417090045	0.424607895
p2_unf_err	-0.3723389	-0.3838079	-0.3942579	-0.403491323	-0.411052599
p1_net_pt	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p2_net_pt	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_net_pt_won	-0.1011234	-0.1100983	-0.1182758	-0.125506450	-0.131812969
p2_net_pt_won	0.1384705	0.1460524	0.1529608	0.159171419	0.164497636
p1_break_pt	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p2_break_pt	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_break_pt_won	0.0000000	0.0000000	0.0000000	-0.004866147	-0.030933747
p2_break_pt_won	0.0000000	0.0000000	0.0000000	0.016265528	0.047192018
p1_break_pt_missed	0.0000000	0.0000000	0.0000000	0.000000000	0.001556612
p2_break_pt_missed	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p1_distance_run	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
p2_distance_run	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
rally_count	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000

speed_mph	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
serve_width	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
serve_depth	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
return_depth	0.0000000	0.0000000	0.0000000	0.000000000	0.000000000
	s20	s21	s22	s23	
(Intercept)	1.19473386	1.1875362	1.180717822	1.174452344	
match_id	0.00000000	0.0000000	0.000000000	0.000000000	
player1	0.00000000	0.0000000	0.000000000	0.000000000	
player2	0.00000000	0.0000000	0.000000000	0.000000000	
elapsed_time	0.00000000	0.0000000	0.000000000	0.000000000	
set_no	0.00000000	0.0000000	0.000000000	0.000000000	
game_no	0.00000000	0.0000000	0.000000000	0.000000000	
point_no	0.00000000	0.0000000	0.000000000	0.000000000	
p1_sets	0.00000000	0.0000000	0.000000000	0.000000000	
p2_sets	0.00000000	0.0000000	0.000000000	0.000000000	
p1_games	0.00000000	0.0000000	0.000000000	0.000000000	
p2_games	0.00000000	0.0000000	0.000000000	0.000000000	
p1_score	0.00000000	0.0000000	0.000000000	0.000000000	
p2_score	0.00000000	0.0000000	0.000000000	0.000000000	
server	0.19411185	0.1987928	0.202756757	0.206320641	
serve_no	0.00000000	0.0000000	0.000000000	0.000000000	
p1_points_won	0.00000000	0.0000000	0.000000000	0.000000000	
p2_points_won	0.00000000	0.0000000	0.000000000	0.000000000	
game_victor	0.00000000	0.0000000	0.002953285	0.006146328	
set_victor	0.00000000	0.0000000	0.000000000	0.000000000	
p1_ace	0.00000000	0.0000000	0.000000000	0.000000000	
p2_ace	0.00000000	0.0000000	0.000000000	0.000000000	
p1_winner	-0.34540794	-0.3494694	-0.352939230	-0.356045782	
p2_winner	0.33073766	0.3347547	0.338483619	0.341898922	
winner_shot_type	0.00000000	0.0000000	0.000000000	0.000000000	
p1_double_fault	0.00000000	0.0000000	0.000000000	0.000000000	
p2_double_fault	0.00000000	0.0000000	0.000000000	0.000000000	
p1_unf_err	0.43122676	0.4372558	0.442806912	0.447878425	
p2_unf_err	-0.41759221	-0.4235518	-0.428510667	-0.432945360	
p1_net_pt	0.00000000	0.0000000	0.000000000	0.000000000	
p2_net_pt	0.00000000	0.0000000	0.000000000	0.000000000	
p1_net_pt_won	-0.13753296	-0.1427436	-0.147415375	-0.151662462	
p2_net_pt_won	0.16924478	0.1735713	0.177402779	0.180873558	
p1_break_pt	0.00000000	0.0000000	0.000000000	0.000000000	
p2_break_pt	0.00000000	0.0000000	0.000000000	0.000000000	
p1_break_pt_won	-0.05429389	-0.0755791	-0.097325639	-0.117543463	
p2_break_pt_won	0.07552220	0.1013360	0.119485858	0.135113196	
p1_break_pt_missed	0.01456143	0.0264107	0.038062416	0.048824409	

p2_break_pt_missed	0.00000000	0.00000000	0.000000000	0.000000000	
p1_distance_run	0.00000000	0.00000000	0.000000000	0.000000000	
p2_distance_run	0.00000000	0.00000000	0.000000000	0.000000000	
rally_count	0.00000000	0.00000000	0.000000000	0.000000000	
speed_mph	0.00000000	0.00000000	0.000000000	0.000000000	
serve_width	0.00000000	0.00000000	0.000000000	0.000000000	
serve_depth	0.00000000	0.00000000	0.000000000	0.000000000	
return_depth	0.00000000	0.00000000	0.000000000	0.000000000	
	s24	s25	s26	s27	s28
(Intercept)	1.169351714	1.16491375	1.16087158	1.15686909	1.15309979
match_id	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
player1	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
player2	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
elapsed_time	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
set_no	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
game_no	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
point_no	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_sets	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_sets	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_games	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_games	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_score	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_score	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
server	0.209269213	0.21186985	0.21423267	0.21697822	0.21976080
serve_no	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_points_won	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_points_won	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
game_victor	0.009016115	0.01156476	0.01390488	0.01584243	0.01749529
set_victor	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_ace	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_ace	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_winner	-0.358757031	-0.36122098	-0.36345287	-0.36367181	-0.36287777
p2_winner	0.344938307	0.34764315	0.35012272	0.35204427	0.35345072
winner_shot_type	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_double_fault	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_double_fault	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_unf_err	0.452354162	0.45635903	0.46001621	0.46284813	0.46518749
p2_unf_err	-0.436904198	-0.44050373	-0.44377578	-0.44580254	-0.44711264
p1_net_pt	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_net_pt	0.000000000	0.00000000	0.00000000	-0.01363621	-0.03321703
p1_net_pt_won	-0.155504455	-0.15898283	-0.16215667	-0.16632161	-0.17077288
p2_net_pt_won	0.184018851	0.18689161	0.18950422	0.20503942	0.22619606
p1_break_pt	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000

p2_break_pt	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_break_pt_won	-0.136002641	-0.15279714	-0.16811278	-0.18220329	-0.19511294
p2_break_pt_won	0.149191177	0.16206434	0.17375837	0.18481925	0.19513404
p1_break_pt_missed	0.058673829	0.06764144	0.07581994	0.08269398	0.08868012
p2_break_pt_missed	-0.007296119	-0.01651903	-0.02492203	-0.03323166	-0.04118263
p1_distance_run	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_distance_run	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
rally_count	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
speed_mph	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
serve_width	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
serve_depth	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
return_depth	0.000000000	0.00000000	0.00000000	0.00000000	0.00000000
	s29	s30	s31	s32	s33
(Intercept)	1.14965461	1.14652582	1.14286496	1.13925348	1.13596906
match_id	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
player1	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
player2	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
elapsed_time	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
set_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
game_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
point_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_sets	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_sets	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_games	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_games	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_score	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_score	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
server	0.22229930	0.22460928	0.22703549	0.22933985	0.23143516
serve_no	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_points_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_points_won	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
game_victor	0.01900343	0.02037557	0.02156687	0.02264126	0.02361811
set_victor	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_ace	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_ace	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_winner	-0.36219894	-0.36153720	-0.36057657	-0.35970417	-0.35886315
p2_winner	0.35477785	0.35594310	0.35533155	0.35432011	0.35333430
winner_shot_type	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_double_fault	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_double_fault	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_unf_err	0.46731648	0.46925882	0.47017282	0.47065585	0.47107666
p2_unf_err	-0.44833452	-0.44942064	-0.45002084	-0.45056646	-0.45104457
p1_net_pt	0.00000000	0.00000000	0.01402708	0.03183606	0.04829411

p2_net_pt	-0.05084282	-0.06711082	-0.08240862	-0.09564515	-0.10785051
p1_net_pt_won	-0.17481030	-0.17850684	-0.19564237	-0.21615931	-0.23510193
p2_net_pt_won	0.24523872	0.26281600	0.28045051	0.29617203	0.31067735
p1_break_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_break_pt	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p1_break_pt_won	-0.20687222	-0.21759026	-0.22735647	-0.23622927	-0.24431328
p2_break_pt_won	0.20452899	0.21309266	0.22008474	0.22614223	0.23164859
p1_break_pt_missed	0.09413369	0.09910355	0.10373142	0.10800271	0.11190163
p2_break_pt_missed	-0.04840590	-0.05500810	-0.06076326	-0.06585340	-0.07050642
p1_distance_run	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
p2_distance_run	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
rally_count	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
speed_mph	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
serve_width	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
serve_depth	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
return_depth	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
	s34	s35	s36	s37	
(Intercept)	1.133457e+00	1.131744489	1.130485e+00	1.129499e+00	
match_id	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
player1	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
player2	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
elapsed_time	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
set_no	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
game_no	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
point_no	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p1_sets	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p2_sets	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p1_games	0.000000e+00	0.000000000	-2.092501e-04	-5.254193e-04	
p2_games	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p1_score	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p2_score	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
server	2.333537e-01	0.235113205	2.367496e-01	2.382691e-01	
serve_no	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p1_points_won	-7.870401e-06	-0.000024458	-3.681727e-05	-4.622515e-05	
p2_points_won	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
game_victor	2.451220e-02	0.025322797	2.605237e-02	2.670774e-02	
set_victor	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p1_ace	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p2_ace	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p1_winner	-3.580713e-01	-0.357323992	-3.565898e-01	-3.559634e-01	
p2_winner	3.524008e-01	0.351582551	3.507385e-01	3.500823e-01	
winner_shot_type	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	
p1_double_fault	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00	



p2_double_fault	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
p1_unf_err	4.714260e-01	0.471749807	4.719963e-01	4.722777e-01
p2_unf_err	-4.514744e-01	-0.451835378	-4.521987e-01	-4.525477e-01
p1_net_pt	6.333052e-02	0.076728550	8.951677e-02	1.007138e-01
p2_net_pt	-1.189222e-01	-0.129022316	-1.382989e-01	-1.467109e-01
p1_net_pt_won	-2.523956e-01	-0.267843019	-2.825037e-01	-2.953847e-01
p2_net_pt_won	3.238672e-01	0.335890742	3.469841e-01	3.569964e-01
p1_break_pt	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
p2_break_pt	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
p1_break_pt_won	-2.515987e-01	-0.258137057	-2.641250e-01	-2.696038e-01
p2_break_pt_won	2.365493e-01	0.240911166	2.447328e-01	2.481860e-01
p1_break_pt_missed	1.155182e-01	0.118880281	1.219348e-01	1.246867e-01
p2_break_pt_missed	-7.481394e-02	-0.078824315	-8.251467e-02	-8.588311e-02
p1_distance_run	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
p2_distance_run	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
rally_count	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
speed_mph	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
serve_width	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
serve_depth	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
return_depth	0.000000e+00	0.000000000	0.000000e+00	0.000000e+00
	s38	s39	s40	s41
(Intercept)	1.129407e+00	1.130224e+00	1.130971e+00	1.131643e+00
match_id	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
player1	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
player2	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
elapsed_time	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
set_no	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
game_no	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
point_no	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_sets	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p2_sets	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_games	-8.129778e-04	-1.081066e-03	-1.324342e-03	-1.545821e-03
p2_games	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_score	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p2_score	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
server	2.396446e-01	2.408932e-01	2.420270e-01	2.430655e-01
serve_no	-5.858286e-04	-1.781569e-03	-2.866724e-03	-3.855818e-03
p1_points_won	-5.499978e-05	-6.288948e-05	-7.016146e-05	-7.676036e-05
p2_points_won	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
game_victor	2.731340e-02	2.786314e-02	2.836608e-02	2.882618e-02
set_victor	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_ace	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p2_ace	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

p1_winner	-3.553628e-01	-3.548019e-01	-3.542670e-01	-3.538236e-01
p2_winner	3.494480e-01	3.489796e-01	3.484860e-01	3.481021e-01
winner_shot_type	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_double_fault	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p2_double_fault	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_unf_err	4.726308e-01	4.731393e-01	4.735717e-01	4.739911e-01
p2_unf_err	-4.527523e-01	-4.527900e-01	-4.528236e-01	-4.528681e-01
p1_net_pt	1.111463e-01	1.202935e-01	1.289018e-01	1.364645e-01
p2_net_pt	-1.544083e-01	-1.614713e-01	-1.679567e-01	-1.737546e-01
p1_net_pt_won	-3.073844e-01	-3.179899e-01	-3.279358e-01	-3.367007e-01
p2_net_pt_won	3.661338e-01	3.744182e-01	3.820512e-01	3.888563e-01
p1_break_pt	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p2_break_pt	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_break_pt_won	-2.745973e-01	-2.791486e-01	-2.832947e-01	-2.870749e-01
p2_break_pt_won	2.513940e-01	2.544454e-01	2.572024e-01	2.597322e-01
p1_break_pt_missed	1.271736e-01	1.293959e-01	1.314299e-01	1.332741e-01
p2_break_pt_missed	-8.897271e-02	-9.180692e-02	-9.439632e-02	-9.674271e-02
p1_distance_run	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p2_distance_run	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
rally_count	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
speed_mph	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
serve_width	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
serve_depth	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
return_depth	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
	s42	s43	s44	s45
(Intercept)	1.132263e+00	1.1328288291	1.133344e+00	1.1338052097
match_id	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
player1	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
player2	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
elapsed_time	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
set_no	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
game_no	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
point_no	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p1_sets	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p2_sets	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p1_games	-1.747801e-03	-0.0019318553	-2.099560e-03	-0.0022521696
p2_games	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p1_score	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p2_score	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
server	2.440066e-01	0.2448635561	2.456443e-01	0.2463611458
serve_no	-4.756726e-03	-0.0055774693	-6.325282e-03	-0.0070069264
p1_points_won	-8.279897e-05	-0.0000883033	-9.331883e-05	-0.0000978599
p2_points_won	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000

game_victor	2.924364e-02	0.0296238918	2.997036e-02	0.0302880676
set_victor	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p1_ace	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p2_ace	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p1_winner	-3.533774e-01	-0.3529674678	-3.525937e-01	-0.3523002668
p2_winner	3.476893e-01	0.3473072698	3.469587e-01	0.3467110846
winner_shot_type	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p1_double_fault	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p2_double_fault	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p1_unf_err	4.743490e-01	0.4746720190	4.749660e-01	0.4752600425
p2_unf_err	-4.528952e-01	-0.4529195065	-4.529417e-01	-0.4529775502
p1_net_pt	1.436239e-01	0.1501780854	1.561532e-01	0.1613065628
p2_net_pt	-1.791446e-01	-0.1840602153	-1.885392e-01	-0.1924962151
p1_net_pt_won	-3.449713e-01	-0.3525393532	-3.594384e-01	-0.3654158116
p2_net_pt_won	3.952008e-01	0.4009898477	4.062650e-01	0.4109068409
p1_break_pt	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p2_break_pt	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p1_break_pt_won	-2.905170e-01	-0.2936529562	-2.965103e-01	-0.2991159443
p2_break_pt_won	2.620204e-01	0.2641031733	2.660007e-01	0.2677477909
p1_break_pt_missed	1.349632e-01	0.1365032817	1.379067e-01	0.1391759276
p2_break_pt_missed	-9.889312e-02	-0.1008532350	-1.026393e-01	-0.1042523979
p1_distance_run	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
p2_distance_run	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
rally_count	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
speed_mph	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
serve_width	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
serve_depth	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
return_depth	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000
	s46	s47	s48	s49
(Intercept)	1.1342328994	1.134694e+00	1.1326518064	1.1307861064
match_id	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
player1	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
player2	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
elapsed_time	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
set_no	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
game_no	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
point_no	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_sets	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p2_sets	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_games	-0.0023913920	-2.518270e-03	-0.0025884901	-0.0026030985
p2_games	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_score	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p2_score	0.0000000000	0.000000e+00	0.0000000000	0.0000000000

server	0.2470097387	2.476000e-01	0.2492227368	0.2506726220
serve_no	-0.0076279203	-8.193609e-03	-0.0086828422	-0.0091479526
p1_points_won	-0.0001020229	-1.058192e-04	-0.0002526365	-0.0004315598
p2_points_won	0.0000000000	1.044619e-06	0.0001590844	0.0003490782
game_victor	0.0305757304	3.083770e-02	0.0309786943	0.0311124831
set_victor	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_ace	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p2_ace	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_winner	-0.3519912186	-3.517082e-01	-0.3513533230	-0.3511194742
p2_winner	0.3464245758	3.461568e-01	0.3460190075	0.3460074620
winner_shot_type	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_double_fault	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p2_double_fault	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_unf_err	0.4755063003	4.757285e-01	0.4754786649	0.4752193273
p2_unf_err	-0.4529954948	-4.530114e-01	-0.4525851003	-0.4521896078
p1_net_pt	0.1662467470	1.707870e-01	0.1761069364	0.1799336272
p2_net_pt	-0.1962168481	-1.996177e-01	-0.2030877889	-0.2059833986
p1_net_pt_won	-0.3711224975	-3.763639e-01	-0.3820717451	-0.3863132016
p2_net_pt_won	0.4152864361	4.192890e-01	0.4231307500	0.4261762066
p1_break_pt	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p2_break_pt	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_break_pt_won	-0.3014885000	-3.036563e-01	-0.3049003789	-0.3058288020
p2_break_pt_won	0.2693246615	2.707684e-01	0.2720853851	0.2730963714
p1_break_pt_missed	0.1403403259	1.413978e-01	0.1431569991	0.1448874845
p2_break_pt_missed	-0.1057351454	-1.070806e-01	-0.1086851166	-0.1102418868
p1_distance_run	0.0000000000	-1.026685e-05	-0.0002576717	-0.0004778778
p2_distance_run	0.0000000000	1.930977e-06	0.0002415562	0.0004544920
rally_count	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
speed_mph	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
serve_width	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
serve_depth	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
return_depth	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
	s50	s51	s52	s53
(Intercept)	1.1291159496	1.1275883297	1.1261281163	1.124664e+00
match_id	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
player1	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
player2	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
elapsed_time	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
set_no	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
game_no	0.0000000000	0.0000000000	0.0000000000	-2.979740e-06
point_no	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p1_sets	0.0000000000	0.0000000000	0.0004870716	3.447046e-03
p2_sets	0.0000000000	0.0000000000	-0.0006789192	-3.160284e-03

p1_games	-0.0026193053	-0.0026321530	-0.0026266538	-2.428003e-03
p2_games	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p1_score	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p2_score	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
server	0.2519755499	0.2531644215	0.2542524987	2.551565e-01
serve_no	-0.0095727906	-0.0099595908	-0.0103283014	-1.072302e-02
p1_points_won	-0.0005912132	-0.0007388068	-0.0009163917	-1.267825e-03
p2_points_won	0.0005187479	0.0006755104	0.0008645509	1.217756e-03
game_victor	0.0312363919	0.0313486091	0.0314404367	3.149290e-02
set_victor	0.0000000000	0.0000000000	0.0000000000	-1.743558e-04
p1_ace	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p2_ace	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p1_winner	-0.3509097263	-0.3507163582	-0.3505107343	-3.501707e-01
p2_winner	0.3459946311	0.3459822963	0.3459659427	3.458815e-01
winner_shot_type	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p1_double_fault	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p2_double_fault	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p1_unf_err	0.4749914821	0.4747799724	0.4745561848	4.741994e-01
p2_unf_err	-0.4518389981	-0.4515156821	-0.4511533654	-4.505759e-01
p1_net_pt	0.1834010056	0.1865585718	0.1894516790	1.920574e-01
p2_net_pt	-0.2086209142	-0.2110219533	-0.2132116346	-2.152089e-01
p1_net_pt_won	-0.3901640331	-0.3936716765	-0.3968567724	-3.996874e-01
p2_net_pt_won	0.4289525178	0.4314783774	0.4337428614	4.356582e-01
p1_break_pt	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p2_break_pt	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
p1_break_pt_won	-0.3066936590	-0.3074704006	-0.3080702001	-3.080835e-01
p2_break_pt_won	0.2740186154	0.2748535946	0.2754717854	2.754605e-01
p1_break_pt_missed	0.1464461994	0.1478751507	0.1491849413	1.504724e-01
p2_break_pt_missed	-0.1116515162	-0.1129412479	-0.1141638838	-1.154824e-01
p1_distance_run	-0.0006747396	-0.0008545161	-0.0010212059	-1.167856e-03
p2_distance_run	0.0006452046	0.0008192586	0.0009806379	1.123325e-03
rally_count	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
speed_mph	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
serve_width	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
serve_depth	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
return_depth	0.0000000000	0.0000000000	0.0000000000	0.000000e+00
	s54	s55	s56	s57
(Intercept)	1.1254606098	1.125365e+00	1.1245161584	1.123880313
match_id	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
player1	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
player2	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
elapsed_time	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
set_no	0.0000000000	0.000000e+00	0.0000000000	0.0000000000

game_no	-0.0010295784	-1.459800e-03	-0.0005874604	0.0000000000
point_no	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_sets	0.0050450943	6.352395e-03	0.0076050787	0.008700754
p2_sets	-0.0068569315	-1.037798e-02	-0.0141220378	-0.017409829
p1_games	-0.0006123991	0.000000e+00	0.0000000000	0.0000000000
p2_games	0.0000000000	-3.685465e-05	-0.0020375600	-0.003483904
p1_score	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p2_score	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
server	0.2554589783	2.560172e-01	0.2561195887	0.256321405
serve_no	-0.0110985573	-1.145450e-02	-0.0117730938	-0.012067945
p1_points_won	-0.0016049640	-1.906153e-03	-0.0022269132	-0.002505450
p2_points_won	0.0015967147	1.941874e-03	0.0023091459	0.002629440
game_victor	0.0315945140	3.167950e-02	0.0317286531	0.031771839
set_victor	-0.0012125933	-2.176909e-03	-0.0030421925	-0.003784427
p1_ace	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p2_ace	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_winner	-0.3498780841	-3.495947e-01	-0.3493257450	-0.349085796
p2_winner	0.3458172882	3.457748e-01	0.3457059404	0.345655711
winner_shot_type	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_double_fault	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p2_double_fault	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_unf_err	0.4738639057	4.735688e-01	0.4732407720	0.472961469
p2_unf_err	-0.4500429128	-4.495354e-01	-0.4490372387	-0.448599375
p1_net_pt	0.1944128541	1.965873e-01	0.1985041157	0.200268633
p2_net_pt	-0.2170251985	-2.186769e-01	-0.2201667191	-0.221530154
p1_net_pt_won	-0.4022248957	-4.045616e-01	-0.4066335835	-0.408534681
p2_net_pt_won	0.4374558908	4.390621e-01	0.4405162339	0.441845107
p1_break_pt	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p2_break_pt	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
p1_break_pt_won	-0.3081216913	-3.081131e-01	-0.3080071994	-0.307947434
p2_break_pt_won	0.2754456436	2.753137e-01	0.2752215663	0.275121415
p1_break_pt_missed	0.1514025825	1.523516e-01	0.1531203809	0.153834925
p2_break_pt_missed	-0.1168069440	-1.180270e-01	-0.1192208434	-0.120290429
p1_distance_run	-0.0013017176	-1.422913e-03	-0.0015335100	-0.001634767
p2_distance_run	0.0012558879	1.373990e-03	0.0014835661	0.001583385
rally_count	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
speed_mph	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
serve_width	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
serve_depth	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
return_depth	0.0000000000	0.000000e+00	0.0000000000	0.0000000000
	s58	s59	s60	s61
(Intercept)	1.124225e+00	1.128373e+00	1.131043e+00	1.133776e+00
match_id	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

player1	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
player2	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
elapsed_time	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
set_no	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
game_no	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
point_no	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_sets	9.035653e-03	9.300139e-03	9.524949e-03	1.005670e-02
p2_sets	-2.026679e-02	-2.304372e-02	-2.556607e-02	-2.799052e-02
p1_games	0.000000e+00	0.000000e+00	0.000000e+00	2.920332e-04
p2_games	-3.873015e-03	-4.251213e-03	-4.595618e-03	-5.131264e-03
p1_score	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p2_score	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
server	2.567672e-01	2.571708e-01	2.575360e-01	2.577230e-01
serve_no	-1.234124e-02	-1.330132e-02	-1.393891e-02	-1.453547e-02
p1_points_won	-2.695948e-03	-2.878834e-03	-3.043460e-03	-3.228845e-03
p2_points_won	2.866567e-03	3.095064e-03	3.301454e-03	3.521522e-03
game_victor	3.181822e-02	3.186682e-02	3.190796e-02	3.194351e-02
set_victor	-4.370806e-03	-4.918938e-03	-5.415244e-03	-5.922296e-03
p1_ace	0.000000e+00	0.000000e+00	0.000000e+00	-4.530976e-04
p2_ace	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_winner	-3.489062e-01	-3.487332e-01	-3.485779e-01	-3.483961e-01
p2_winner	3.456456e-01	3.456298e-01	3.456175e-01	3.455853e-01
winner_shot_type	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_double_fault	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p2_double_fault	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_unf_err	4.727827e-01	4.725651e-01	4.723838e-01	4.721743e-01
p2_unf_err	-4.482626e-01	-4.479750e-01	-4.477037e-01	-4.474203e-01
p1_net_pt	2.019608e-01	2.035135e-01	2.049233e-01	2.061588e-01
p2_net_pt	-2.228030e-01	-2.239469e-01	-2.249936e-01	-2.259349e-01
p1_net_pt_won	-4.103381e-01	-4.119862e-01	-4.134851e-01	-4.148190e-01
p2_net_pt_won	4.431064e-01	4.442271e-01	4.452560e-01	4.461684e-01
p1_break_pt	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p2_break_pt	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
p1_break_pt_won	-3.080882e-01	-3.082096e-01	-3.083184e-01	-3.083140e-01
p2_break_pt_won	2.750667e-01	2.749776e-01	2.749035e-01	2.748067e-01
p1_break_pt_missed	1.544662e-01	1.550586e-01	1.555923e-01	1.560892e-01
p2_break_pt_missed	-1.211868e-01	-1.219645e-01	-1.226907e-01	-1.233897e-01
p1_distance_run	-1.727213e-03	-1.811260e-03	-1.887795e-03	-1.957474e-03
p2_distance_run	1.673569e-03	1.754390e-03	1.828354e-03	1.896025e-03
rally_count	0.000000e+00	0.000000e+00	0.000000e+00	-1.074229e-05
speed_mph	-5.154187e-06	-3.494996e-05	-5.519271e-05	-7.476482e-05
serve_width	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
serve_depth	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

return_depth	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
	s62	s63	s64	s65
(Intercept)	1.136378e+00	1.1388451743	1.1410906904	1.1431337989
match_id	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
player1	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
player2	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
elapsed_time	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
set_no	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
game_no	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
point_no	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
p1_sets	1.116882e-02	0.0121783953	0.0130887082	0.0139092564
p2_sets	-3.013023e-02	-0.0319918830	-0.0336829845	-0.0352167058
p1_games	1.000789e-03	0.0016299245	0.0022001700	0.0027165882
p2_games	-5.916681e-03	-0.0066086815	-0.0072366596	-0.0078058912
p1_score	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
p2_score	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
server	2.576732e-01	0.2576447480	0.2576202887	0.2575996751
serve_no	-1.504108e-02	-0.0155258642	-0.0159672423	-0.0163691063
p1_points_won	-3.444980e-03	-0.0036353342	-0.0038077114	-0.0039636275
p2_points_won	3.757860e-03	0.0039652677	0.0041532332	0.0043233597
game_victor	3.193873e-02	0.0319504602	0.0319613607	0.0319715575
set_victor	-6.447565e-03	-0.0069255259	-0.0073607651	-0.0077570002
p1_ace	-1.631181e-03	-0.0025769077	-0.0034385374	-0.0042233119
p2_ace	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
p1_winner	-3.479356e-01	-0.3476096762	-0.3473132248	-0.3470438030
p2_winner	3.457489e-01	0.3458215303	0.3458884389	0.3459500718
winner_shot_type	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
p1_double_fault	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
p2_double_fault	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
p1_unf_err	4.720193e-01	0.4718522719	0.4717014816	0.4715655082
p2_unf_err	-4.470295e-01	-0.4467163095	-0.4464320802	-0.4461744384
p1_net_pt	2.072150e-01	0.2081829344	0.2090653170	0.2098699469
p2_net_pt	-2.268247e-01	-0.2276201947	-0.2283454532	-0.2290067410
p1_net_pt_won	-4.160577e-01	-0.4171655440	-0.4181756357	-0.4190967207
p2_net_pt_won	4.469766e-01	0.4477170890	0.4483927555	0.4490094801
p1_break_pt	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
p2_break_pt	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
p1_break_pt_won	-3.081109e-01	-0.3079704389	-0.3078459109	-0.3077362295
p2_break_pt_won	2.748238e-01	0.2748201413	0.2748197859	0.2748227143
p1_break_pt_missed	1.565121e-01	0.1569080702	0.1572674731	0.1575935609
p2_break_pt_missed	-1.240886e-01	-0.1247021567	-0.1252595322	-0.1257654723
p1_distance_run	-1.993475e-03	-0.0020359633	-0.0020745895	-0.0021097168
p2_distance_run	1.983222e-03	0.0020538966	0.0021182988	0.0021769901



rally_count	-2.316545e-04	-0.0003604039	-0.0004780573	-0.0005855375
speed_mph	-9.338619e-05	-0.0001107924	-0.0001266459	-0.0001410867
serve_width	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
serve_depth	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
return_depth	0.000000e+00	0.0000000000	0.0000000000	0.0000000000
	s66	s67	s68	s69
(Intercept)	1.1450018402	1.1466977508	1.1482462760	1.1496588229
match_id	0.0000000000	0.0000000000	0.0000000000	0.0000000000
player1	0.0000000000	0.0000000000	0.0000000000	0.0000000000
player2	0.0000000000	0.0000000000	0.0000000000	0.0000000000
elapsed_time	0.0000000000	0.0000000000	0.0000000000	0.0000000000
set_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
game_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
point_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_sets	0.0146748874	0.0153557344	0.0159839765	0.0165610557
p2_sets	-0.0366289720	-0.0378956210	-0.0390597257	-0.0401212223
p1_games	0.0031936010	0.0036211878	0.0040141838	0.0043734568
p2_games	-0.0083306268	-0.0088014921	-0.0092340603	-0.0096290131
p1_score	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_score	0.0000000000	0.0000000000	0.0000000000	0.0000000000
server	0.2575768313	0.2575599552	0.2575423562	0.2575253622
serve_no	-0.0167357702	-0.0170692517	-0.0173733610	-0.0176505259
p1_points_won	-0.0041080372	-0.0042370088	-0.0043557833	-0.0044644116
p2_points_won	0.0044807087	0.0046213733	0.0047508559	0.0048691890
game_victor	0.0319802713	0.0319888504	0.0319963797	0.0320031535
set_victor	-0.0081187729	-0.0084475027	-0.0087474991	-0.0090209338
p1_ace	-0.0049395564	-0.0055913587	-0.0061856829	-0.0067275560
p2_ace	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_winner	-0.3467964891	-0.3465725708	-0.3463678939	-0.3461808870
p2_winner	0.3460050499	0.3460567624	0.3461029658	0.3461449300
winner_shot_type	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_double_fault	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_double_fault	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_unf_err	0.4714389254	0.4713268804	0.4712232326	0.4711284429
p2_unf_err	-0.4459369568	-0.4457237195	-0.4455279674	-0.4453492072
p1_net_pt	0.2106011579	0.2112687667	0.2118762318	0.2124290592
p2_net_pt	-0.2296081734	-0.2301572778	-0.2306568908	-0.2311118399
p1_net_pt_won	-0.4199342356	-0.4206989939	-0.4213948970	-0.4220285255
p2_net_pt_won	0.4495689743	0.4500812446	0.4505467036	0.4509702858
p1_break_pt	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_break_pt	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_break_pt_won	-0.3076284888	-0.3075389284	-0.3074531738	-0.3073736699
p2_break_pt_won	0.2748186185	0.2748225380	0.2748222896	0.2748209391

p1_break_pt_missed	0.1578932601	0.1581632729	0.1584107202	0.1586365706
p2_break_pt_missed	-0.1262304181	-0.1266494711	-0.1270335004	-0.1273839938
p1_distance_run	-0.0021416904	-0.0021706484	-0.0021970618	-0.0022210363
p2_distance_run	0.0022303703	0.0022790471	0.0023233131	0.0023635893
rally_count	-0.0006832642	-0.0007730838	-0.0008545059	-0.0009288352
speed_mph	-0.0001542518	-0.0001662442	-0.0001771714	-0.0001871313
serve_width	0.0000000000	0.0000000000	0.0000000000	0.0000000000
serve_depth	0.0000000000	0.0000000000	0.0000000000	0.0000000000
return_depth	0.0000000000	0.0000000000	0.0000000000	0.0000000000
	s70	s71	s72	s73
(Intercept)	1.1509372834	1.1521099628	1.1531775532	1.1541550042
match_id	0.0000000000	0.0000000000	0.0000000000	0.0000000000
player1	0.0000000000	0.0000000000	0.0000000000	0.0000000000
player2	0.0000000000	0.0000000000	0.0000000000	0.0000000000
elapsed_time	0.0000000000	0.0000000000	0.0000000000	0.0000000000
set_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
game_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
point_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_sets	0.0170611219	0.0175385934	0.0179702326	0.0183784216
p2_sets	-0.0410592758	-0.0419453240	-0.0427396000	-0.0434803354
p1_games	0.0046902749	0.0049889365	0.0052581947	0.0055096514
p2_games	-0.0099781816	-0.0103070526	-0.0106029760	-0.0108788393
p1_score	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_score	0.0000000000	0.0000000000	0.0000000000	0.0000000000
server	0.2575150605	0.2575008194	0.2574883100	0.2574742200
serve_no	-0.0179020800	-0.0181322409	-0.0183415806	-0.0185329445
p1_points_won	-0.0045595038	-0.0046498830	-0.0047311065	-0.0048073724
p2_points_won	0.0049730052	0.0050715433	0.0051600336	0.0052429923
game_victor	0.0320103456	0.0320159597	0.0320214269	0.0320258156
set_victor	-0.0092688173	-0.0094959982	-0.0097025586	-0.0098914814
p1_ace	-0.0072199870	-0.0076694418	-0.0080790063	-0.0084527676
p2_ace	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_winner	-0.3460128690	-0.3458581309	-0.3457173218	-0.3455877608
p2_winner	0.3461851594	0.3462194253	0.3462513218	0.3462792196
winner_shot_type	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_double_fault	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_double_fault	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_unf_err	0.4710470088	0.4709678359	0.4708975024	0.4708304662
p2_unf_err	-0.4451911762	-0.4450425251	-0.4449087501	-0.4447840085
p1_net_pt	0.2129344069	0.2133937422	0.2138114564	0.2141913863
p2_net_pt	-0.2315275706	-0.2319050901	-0.2322489835	-0.2325617484
p1_net_pt_won	-0.4226079578	-0.4231339508	-0.4236131135	-0.4240486192
p2_net_pt_won	0.4513597031	0.4517112689	0.4520321771	0.4523226712

p1_break_pt	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_break_pt	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_break_pt_won	-0.3073140962	-0.3072475354	-0.3071905746	-0.3071312146
p2_break_pt_won	0.2748307912	0.2748288596	0.2748303257	0.2748252924
p1_break_pt_missed	0.1588377098	0.1590255650	0.1591951474	0.1593524602
p2_break_pt_missed	-0.1276964868	-0.1279879444	-0.1282512210	-0.1284951075
p1_distance_run	-0.0022425196	-0.0022625634	-0.0022804209	-0.0022969788
p2_distance_run	0.0024001817	0.0024335956	0.0024638300	0.0024914901
rally_count	-0.0009974679	-0.0010585506	-0.0011149269	-0.0011656665
speed_mph	-0.0001961979	-0.0002044615	-0.0002119931	-0.0002188611
serve_width	0.0000000000	0.0000000000	0.0000000000	0.0000000000
serve_depth	0.0000000000	0.0000000000	0.0000000000	0.0000000000
return_depth	0.0000000000	0.0000000000	0.0000000000	0.0000000000
	s74	s75	s76	s77
(Intercept)	1.1550351339	1.1558449442	1.1565771528	1.1572597727
match_id	0.0000000000	0.0000000000	0.0000000000	0.0000000000
player1	0.0000000000	0.0000000000	0.0000000000	0.0000000000
player2	0.0000000000	0.0000000000	0.0000000000	0.0000000000
elapsed_time	0.0000000000	0.0000000000	0.0000000000	0.0000000000
set_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
game_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
point_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_sets	0.0187163746	0.0190523143	0.0193988049	0.0196469539
p2_sets	-0.0441060566	-0.0447267118	-0.0453154524	-0.0457618603
p1_games	0.0057231064	0.0059321142	0.0061244187	0.0062907119
p2_games	-0.0111133352	-0.0113434161	-0.0115555862	-0.0117336231
p1_score	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_score	0.0000000000	0.0000000000	0.0000000000	0.0000000000
server	0.2574673774	0.2574569551	0.2574448002	0.2574347255
serve_no	-0.0187056696	-0.0188647190	-0.0190080729	-0.0191403732
p1_points_won	-0.0048710188	-0.0049344911	-0.0049968047	-0.0050427041
p2_points_won	0.0053124034	0.0053815671	0.0054489297	0.0054988064
game_victor	0.0320315803	0.0320350750	0.0320377648	0.0320427477
set_victor	-0.0100617048	-0.0102186335	-0.0103615412	-0.0104908336
p1_ace	-0.0087910240	-0.0091010655	-0.0093830876	-0.0096386601
p2_ace	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_winner	-0.3454735379	-0.3453662146	-0.3452641898	-0.3451814832
p2_winner	0.3463070454	0.3463302838	0.3463499795	0.3463701329
winner_shot_type	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_double_fault	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_double_fault	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_unf_err	0.4707772213	0.4707209550	0.4706649019	0.4706278879
p2_unf_err	-0.4446782829	-0.4445741351	-0.4444736773	-0.4443984688

p1_net_pt	0.2145375126	0.2148545521	0.2151387129	0.2153960457
p2_net_pt	-0.2328472588	-0.2331076255	-0.2333431897	-0.2335561595
p1_net_pt_won	-0.4244464727	-0.4248090308	-0.4251345062	-0.4254318921
p2_net_pt_won	0.4525916228	0.4528332752	0.4530487166	0.4532515981
p1_break_pt	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_break_pt	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_break_pt_won	-0.3070965803	-0.3070467955	-0.3069858121	-0.3069681370
p2_break_pt_won	0.2748370807	0.2748326202	0.2748114463	0.2748307191
p1_break_pt_missed	0.1594885986	0.1596196751	0.1597469071	0.1598443365
p2_break_pt_missed	-0.1287064819	-0.1289095860	-0.1291029783	-0.1292566758
p1_distance_run	-0.0023111301	-0.0023252633	-0.0023382000	-0.0023479713
p2_distance_run	0.0025161039	0.0025393627	0.0025604068	0.0025780821
rally_count	-0.0012131007	-0.0012548855	-0.0012923614	-0.0013279953
speed_mph	-0.0002251071	-0.0002308067	-0.0002359184	-0.0002407354
serve_width	0.0000000000	0.0000000000	0.0000000000	0.0000000000
serve_depth	0.0000000000	0.0000000000	0.0000000000	0.0000000000
return_depth	0.0000000000	0.0000000000	0.0000000000	0.0000000000
	s78	s79	s80	s81
(Intercept)	1.1578646765	1.1584234700	1.1589362503	1.1594007420
match_id	0.0000000000	0.0000000000	0.0000000000	0.0000000000
player1	0.0000000000	0.0000000000	0.0000000000	0.0000000000
player2	0.0000000000	0.0000000000	0.0000000000	0.0000000000
elapsed_time	0.0000000000	0.0000000000	0.0000000000	0.0000000000
set_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
game_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
point_no	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_sets	0.0199396680	0.0201727849	0.0203980510	0.0205971506
p2_sets	-0.0462701777	-0.0466562862	-0.0470431218	-0.0473419907
p1_games	0.0064530159	0.0065904205	0.0067244573	0.0068382830
p2_games	-0.0119141234	-0.0120621602	-0.0122077394	-0.0123272679
p1_score	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_score	0.0000000000	0.0000000000	0.0000000000	0.0000000000
server	0.2574270113	0.2574191032	0.2574123700	0.2574105603
serve_no	-0.0192599396	-0.0193685391	-0.0194695350	-0.0195615383
p1_points_won	-0.0050961041	-0.0051371874	-0.0051779232	-0.0052109992
p2_points_won	0.0055566547	0.0056009557	0.0056450172	0.0056803240
game_victor	0.0320440639	0.0320480851	0.0320501848	0.0320544093
set_victor	-0.0106096904	-0.0107165997	-0.0108157029	-0.0109050760
p1_ace	-0.0098746986	-0.0100853372	-0.0102813503	-0.0104530330
p2_ace	0.0000000000	0.0000000000	-0.0001584574	-0.0004535634
p1_winner	-0.3450941067	-0.3450238058	-0.3449546470	-0.3449002427
p2_winner	0.3463875362	0.3464038369	0.3464254641	0.3464586430
winner_shot_type	0.0000000000	0.0000000000	0.0000000000	0.0000000000

p1_double_fault	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_double_fault	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_unf_err	0.4705785797	0.4705445391	0.4705086417	0.4704841029
p2_unf_err	-0.4443115042	-0.4442454946	-0.4441790044	-0.4441267272
p1_net_pt	0.2156367671	0.2158452132	0.2160426440	0.2161942921
p2_net_pt	-0.2337544372	-0.2339289413	-0.2340943089	-0.2342320012
p1_net_pt_won	-0.4257063418	-0.4259469158	-0.4261732623	-0.4263495139
p2_net_pt_won	0.4534312110	0.4535948155	0.4537434971	0.4538615931
p1_break_pt	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p2_break_pt	0.0000000000	0.0000000000	0.0000000000	0.0000000000
p1_break_pt_won	-0.3069115608	-0.3068865969	-0.3068530590	-0.3068376882
p2_break_pt_won	0.2748086829	0.2748128760	0.2748080904	0.2748176340
p1_break_pt_missed	0.1599527159	0.1600395943	0.1601249260	0.1601987791
p2_break_pt_missed	-0.1294212939	-0.1295543919	-0.1296827218	-0.1297883998
p1_distance_run	-0.0023595925	-0.0023680891	-0.0023768581	-0.0023839214
p2_distance_run	0.0025965908	0.0026113312	0.0026259642	0.0026383475
rally_count	-0.0013598025	-0.0013883136	-0.0014153175	-0.0014398829
speed_mph	-0.0002449788	-0.0002489095	-0.0002525104	-0.0002558168
serve_width	0.0000000000	0.0000000000	0.0000000000	0.0000000000
serve_depth	0.0000000000	0.0000000000	0.0000000000	0.0000000000
return_depth	0.0000000000	0.0000000000	0.0000000000	0.0000000000

```

lasso_variables <- colnames(coef(lasso_model))

existing_variables <- intersect(lasso_variables, colnames(eda))

# Filter 'new_data' to include only the variables present in the Lasso model
new_data_lasso <- eda[, existing_variables]

```

““