

Peloton Project

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Contents

Introduction	1
What is Peloton?	1
The goal of this model	1
Loading data and packages	2
Data cleaning	3
Exploratory Data Analysis	5
class	5
overall rating count	6
Data split	10
Model Building	11
Conclusion	59

```
# packages
library(tidyverse)
library(ggplot2)
library(tidymodels)
library(rsample)
library(janitor)
```

Introduction

What is Peloton?

Peloton is a company that brings live and on-demand workout classes to its members for a monthly subscription. The company offers two physical products: an indoor cycling bike and a treadmill. Both devices have screens attached to them to access the Peloton software, allowing you to see your own metrics and compare with other members with bikes or treads. The company also offers a digital app (without metrics), where users can take classes in strength, yoga, HIIT cardio, meditation, pilates, and stretching, in addition to the cycling, running and bootcamp classes offered on the physical equipment.

The goal of this model

To predict the overall rating count, which could be used to predict the popularity of one class.

Loading data and packages

```
data <- read_csv(file = 'Peloton Class List May 2022 - class_list.csv')
data %>%
  head()

## # A tibble: 6 x 25
##   content_format title                description difficulty_esti~ overall_estimate
##   <chr>          <chr>                <chr>                <dbl>                <dbl>
## 1 video          20 min 90s Rock ~ Shred your~          7.56                0.996
## 2 video          10 min Chest & B~ Grab your ~          6.55                0.983
## 3 video          15 min Focus Flo~ This yoga ~          3.64                0.995
## 4 video          20 min 2000s Hip~ Ride along~          7.32                0.997
## 5 video          10 min Tabata Ri~ Two on, on~          7.79                0.997
## 6 video          20 min Power Yoga In this po~          5.64                1
## # ... with 20 more variables: difficulty_rating_avg <dbl>,
## #   difficulty_rating_count <dbl>, `duration (minutes)` <dbl>,
## #   equipment_tags <chr>, explicit_rating <dbl>,
## #   fitness_discipline_display_name <chr>, has_closed_captions <lgl>,
## #   has_pedaling_metrics <lgl>, id <chr>, image_url <chr>,
## #   `length (minutes)` <dbl>, location <chr>, original_air_time <chr>,
## #   overall_rating_avg <dbl>, overall_rating_count <dbl>, ...
```

dependent variable: overall rating count: how many people have rated the class

other variables:

- content_format: video/audio
- title: brief introduction about length and type
- description: describe what will the class taught
- difficulty_estimate:
- overall_estimate:
- difficulty_rating_avg: the average of each individual rating a Peloton member has given a specific class after they've taken it
- difficulty_rating_count: how many people have rated the class's difficulty level
- duration (minutes): the length of exercise time in one class
- equipment_tags: what equipment is needed for the class
- explicit_rating: whether include explicit music during the class, 1 means yes, 0 means no
- fitness_discipline_display_name: the type of class
- has_closed_captions: whether the class has close the captions
- has_pedaling_metrics: whether has metrics which show your pedaling situation and connect with the related equipment
- id:
- image_url:
- length (minutes): the total time of one class video/audio
- location:
- original air time: the time which the class was first published
- overall_rating_avg:
- muscle_group_score: the muscular parts of the body that the course exercises
- instructor_name:
- songs: the songs played during the class
- artists: the artists of the songs played during the class
- class_URL:

Data cleaning

- clean names

```
data <- data %>%
  clean_names()
```

- Deselect unimportant variables

```
data <- data %>%
  select(-id, -image_url, -class_url)
```

- Remove the length of the class from the title so we have comparable title names. (For example, “60 min Walk + Run” and “30 min Walk + Run” both become “Walk + Run”)

```
data<- data %>%
  mutate(
    # remove the length of the class from the title so we have unique title names
    title = str_remove(title, "^.*min") %>% str_trim()
  )
```

- check the identity of difficulty_estimate and difficulty_rating_avg, overall_estimate and overall_rating_avg

```
identical(data$difficulty_estimate, data$difficulty_rating_avg)
```

```
## [1] TRUE
```

```
identical(data$overall_estimate, data$overall_rating_avg)
```

```
## [1] TRUE
```

- Convert rating into a percent

```
data <- data %>%
  mutate(
    overall_rating_avg = overall_rating_avg*100
  )
```

- remove the specific time from the date

```
data<- data %>%
  mutate(
    date = substring(original_air_time,1,10) %>% str_trim(),
    day_time = substring(original_air_time,11,16) %>% str_trim(),
    day_time_hour = gsub("\\\\:.*", "", day_time))
data
```

```
## # A tibble: 27,627 x 25
```

##	content_format	title	description	difficulty_esti~	overall_estimate
##	<chr>	<chr>	<chr>	<dbl>	<dbl>
##	1 video	90s Rock Ride	Shred your~	7.56	0.996
##	2 video	Chest & Back St~	Grab your ~	6.55	0.983
##	3 video	Focus Flow: Flo~	This yoga ~	3.64	0.995
##	4 video	2000s Hip Hop R~	Ride along~	7.32	0.997
##	5 video	Tabata Ride	Two on, on~	7.79	0.997
##	6 video	Power Yoga	In this po~	5.64	1
##	7 video	90s Ride	Take a rid~	7.73	0.994
##	8 video	Climb Ride	There's no~	8.27	1
##	9 video	Meditation for ~	A guided m~	3.34	0.996

```
## 10 video          Arms & Shoulder~ Grab your ~          6.92          0.992
## # ... with 27,617 more rows, and 20 more variables:
## #   difficulty_rating_avg <dbl>, difficulty_rating_count <dbl>,
## #   duration_minutes <dbl>, equipment_tags <chr>, explicit_rating <dbl>,
## #   fitness_discipline_display_name <chr>, has_closed_captions <lgl>,
## #   has_pedaling_metrics <lgl>, length_minutes <dbl>, location <chr>,
## #   original_air_time <chr>, overall_rating_avg <dbl>,
## #   overall_rating_count <dbl>, muscle_group_score <chr>, ...
```

- add days and year column

```
end_date <- "31/05/2022"
data <- data %>%
  mutate(
    days = as.numeric(as.Date(as.character(end_date), format="%d/%m/%Y") - as.Date(as.character(original_air_time), format="%d/%m/%Y")),
    year = as.numeric(format(as.Date(original_air_time, format="%d/%m/%Y"), "%Y"))
```

- Change equipment column into multiple logical variables by type.

```
#create a new variable for TRUE or FALSE when specific equipment is detected from a list
data$equip_yoga_block <- str_detect(data$equipment_tags, "Yoga Block")
data$equip_yoga_blanket <- str_detect(data$equipment_tags, "Yoga Blanket")
data$equip_yoga_mat <- str_detect(data$equipment_tags, "Yoga Mat")
data$equip_yoga_strap <- str_detect(data$equipment_tags, "Yoga Strap")

data$equip_strength_weights_light <- str_detect(data$equipment_tags, "Light Weights")
data$equip_strength_weights_medium <- str_detect(data$equipment_tags, "Medium Weights")
data$equip_strength_weights_heavy <- str_detect(data$equipment_tags, "Heavy Weights")
data$equip_strength_resistanceband <- str_detect(data$equipment_tags, "Resistance Band")

data$equip_workout_mat <- str_detect(data$equipment_tags, "Workout Mat")

data %>%
  head()
```

```
## # A tibble: 6 x 36
##   content_format title          description difficulty_estimate overall_estimate
##   <chr>          <chr>          <chr>          <dbl>          <dbl>
## 1 video          90s Rock Ride      Shred your~      7.56          0.996
## 2 video          Chest & Back Str~   Grab your ~      6.55          0.983
## 3 video          Focus Flow: Floo~   This yoga ~      3.64          0.995
## 4 video          2000s Hip Hop Ri~   Ride along~      7.32          0.997
## 5 video          Tabata Ride        Two on, on~      7.79          0.997
## 6 video          Power Yoga         In this po~      5.64          1
## # ... with 31 more variables: difficulty_rating_avg <dbl>,
## #   difficulty_rating_count <dbl>, duration_minutes <dbl>,
## #   equipment_tags <chr>, explicit_rating <dbl>,
## #   fitness_discipline_display_name <chr>, has_closed_captions <lgl>,
## #   has_pedaling_metrics <lgl>, length_minutes <dbl>, location <chr>,
## #   original_air_time <chr>, overall_rating_avg <dbl>,
## #   overall_rating_count <dbl>, muscle_group_score <chr>, ...
```

prediction? difficulty_estimate and difficulty_rating_avg -> both use??

delete original_air_time???

day_time?? no zero?? only use hour?? day_time_hour??

delete unimportant variable for prediction?? reorder variables???

delete euqipment_tags?? NA to false???

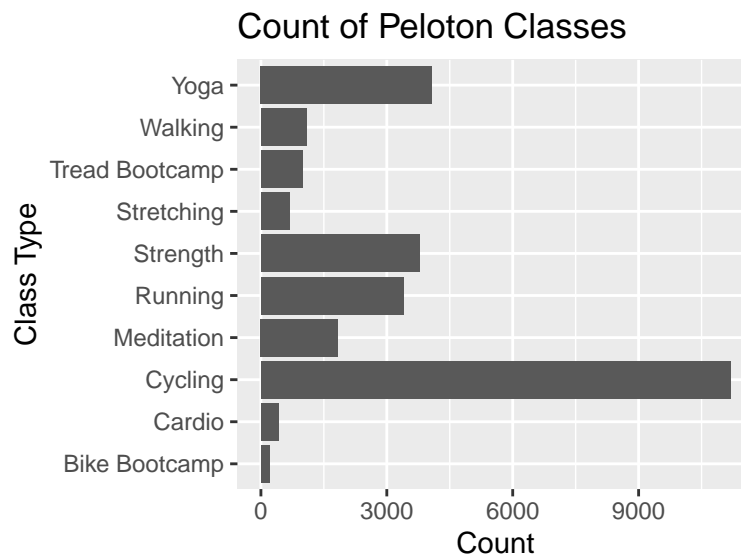
first song??

Exploratory Data Analysis

class

I hypothesize that certain fitness disciplines (type) will result in different overall rating count. Let's begin by counting how many classes are contained within each fitness discipline (type).

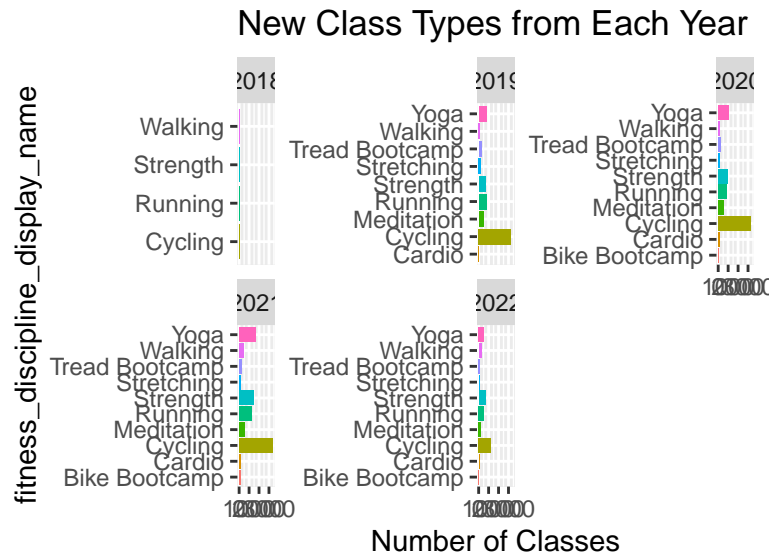
```
ggplot(data, aes(fitness_discipline_display_name)) +  
  geom_bar() +  
  labs(  
    title = "Count of Peloton Classes",  
    x = "Class Type",  
    y = "Count"  
  ) +  
  coord_flip()
```



Peloton started as a company selling only internet-connected stationary bikes in 2015, and so it makes sense that the platform would have more cycling classes than any other types. However, they've clearly added different types of classes over the years.

Let's examine the work they have been doing:

```
data %>%  
  group_by(year, fitness_discipline_display_name) %>%  
  count() %>%  
  ggplot(aes(fitness_discipline_display_name, n, fill = fitness_discipline_display_name)) +  
  geom_col(show.legend = FALSE) +  
  facet_wrap(~year, scales = "free_y") +  
  coord_flip() +  
  labs(  
    title = "New Class Types from Each Year",  
    y = "Number of Classes"  
  )
```



except cycling

yoga, strength, running

count higher? more popular?

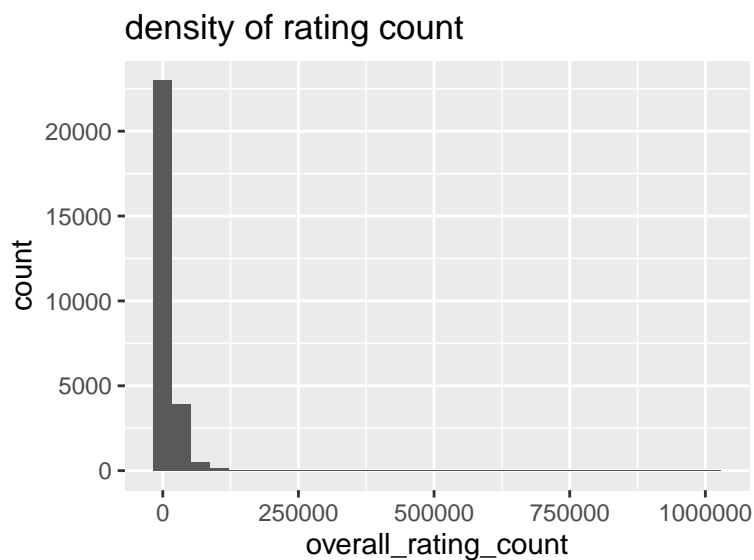
overall rating count

In the end, we want to predict overall rating count in our model. Let's see the distribution.

```
summary(data$overall_rating_count)
```

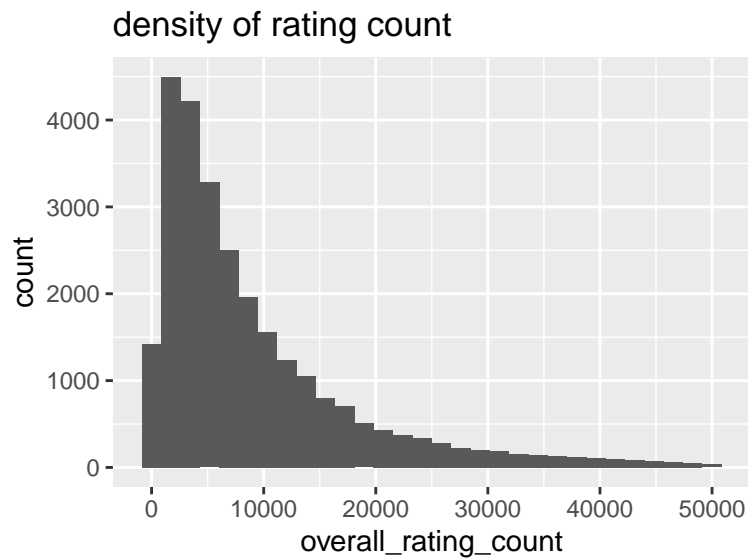
```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##       23   2946   6271   11369   13000  1010878
```

```
ggplot(data, aes(overall_rating_count)) +
  geom_histogram() +
  labs(title = "density of rating count")
```

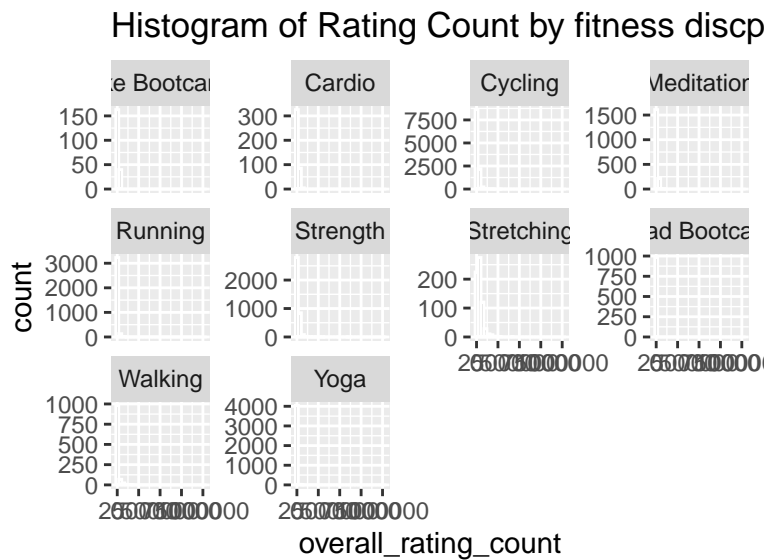


```
data2 <- subset(data, overall_rating_count < 50000)
ggplot(data2, aes(overall_rating_count)) +
```

```
geom_histogram() +
labs(title = "density of rating count")
```

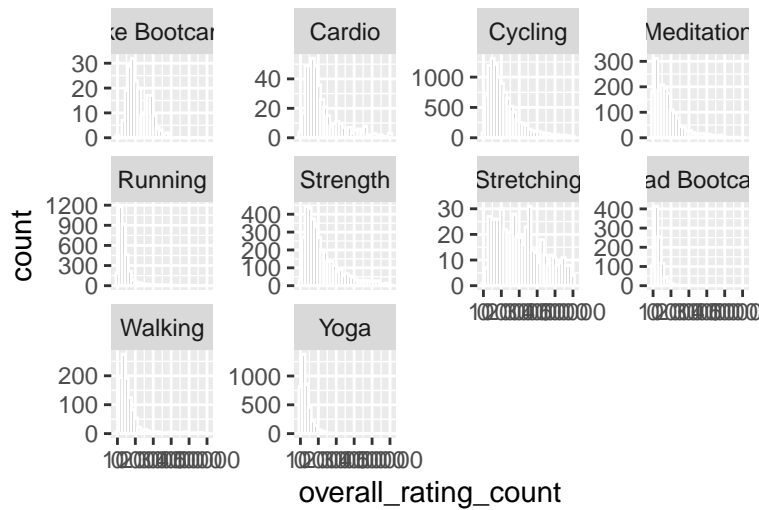


```
ggplot(data, aes(overall_rating_count)) +
  geom_histogram(bins = 30, color = "white") +
  facet_wrap(~fitness_discipline_display_name, scales = "free_y") +
  labs(
    title = "Histogram of Rating Count by fitness discipline"
  )
```



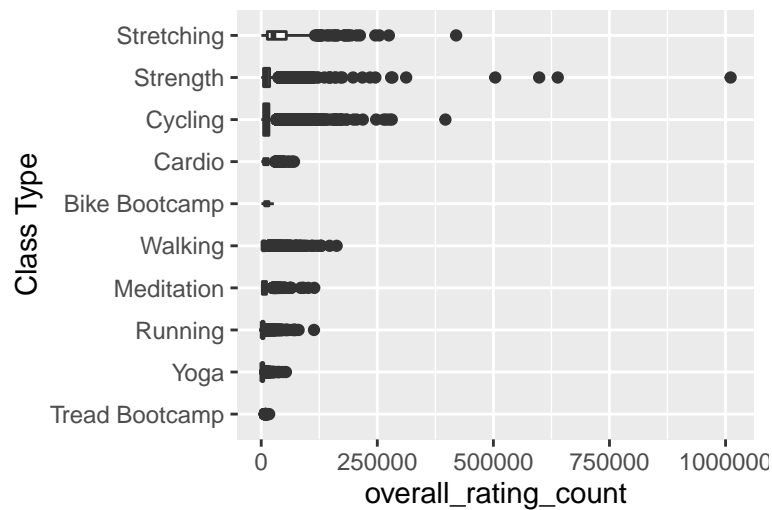
```
ggplot(data2, aes(overall_rating_count)) +
  geom_histogram(bins = 30, color = "white") +
  facet_wrap(~fitness_discipline_display_name, scales = "free_y") +
  labs(
    title = "Histogram of Rating Count by fitness discipline"
  )
```

Histogram of Rating Count by fitness discp

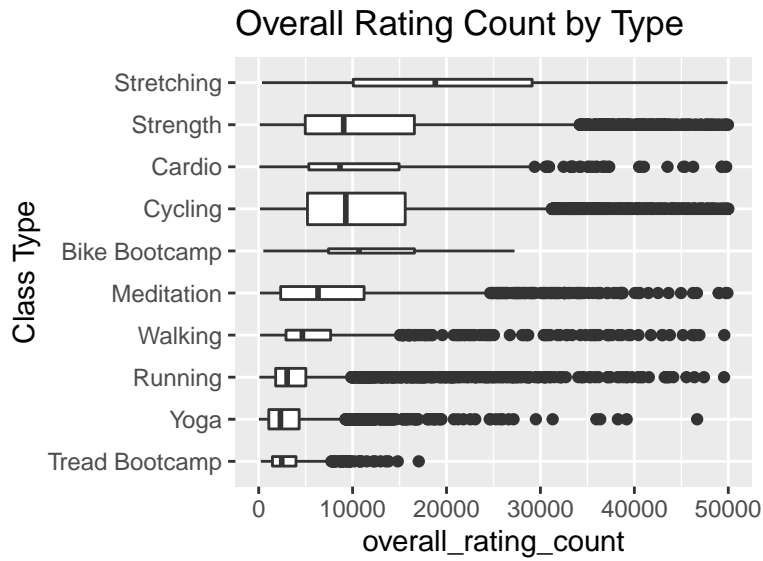


```
ggplot(data, aes(reorder(fitness_discipline_display_name, overall_rating_count), overall_rating_count))
  geom_boxplot(varwidth = TRUE) +
  coord_flip() +
  labs(
    title = "Overall Rating Count by Type",
    x = "Class Type"
  )
)
```

Overall Rating Count by Type

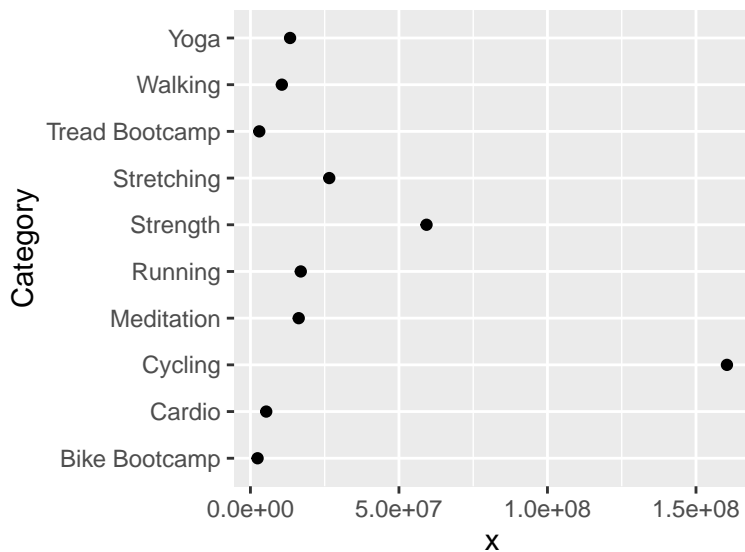


```
ggplot(data2, aes(reorder(fitness_discipline_display_name, overall_rating_count), overall_rating_count))
  geom_boxplot(varwidth = TRUE) +
  coord_flip() +
  labs(
    title = "Overall Rating Count by Type",
    x = "Class Type"
  )
)
```

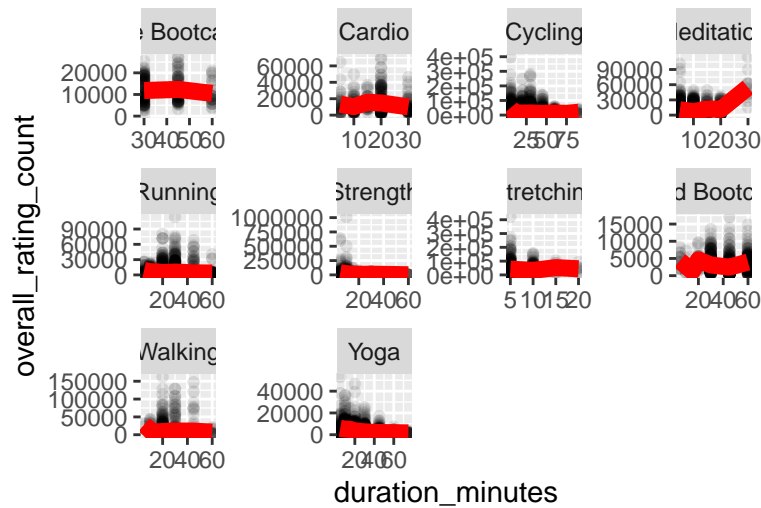
```
data3 <- aggregate(data$overall_rating_count, by=list(Category=data$fitness_discipline_display_name), FUN=fun.aggregate)

ggplot(data3,aes(x,Category)) +
  geom_point()
```



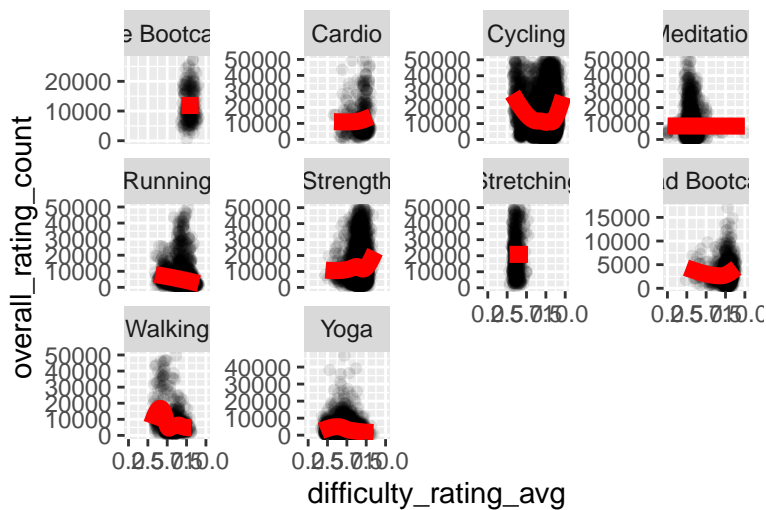
```
data %>%
  ggplot(aes(duration_minutes, overall_rating_count)) +
  geom_point(alpha = 0.1) +
  stat_summary(fun.y=mean, colour="red", geom="line", size = 3)+
  facet_wrap(~fitness_discipline_display_name, scales = "free") +
  labs(
    title = "Class Duration vs. Rating count by Type"
  )
```

Class Duration vs. Rating count by Type



```
data2 %>%
  ggplot(aes(difficulty_rating_avg, overall_rating_count)) +
  # want to see overplotting
  geom_point(alpha = 0.1) +
  geom_smooth(se = FALSE, color = "red", size = 3) +
  facet_wrap(~fitness_discipline_display_name, scales = "free_y") +
  labs(
    title = "Class Difficulty vs. Rating, by Type"
  )
)
```

Class Difficulty vs. Rating, by Type



Data split

- transform the logical variable into factor

```
data <- data %>%
  mutate(
    equip_yoga_block = factor(equip_yoga_block),
    equip_yoga_blanket = factor(equip_yoga_blanket),
  )
```

```

equip_yoga_mat = factor(equip_yoga_mat),
equip_yoga_strap = factor(equip_yoga_strap),
equip_strength_weights_light = factor(equip_strength_weights_light),
equip_strength_weights_medium = factor(equip_strength_weights_medium),
equip_strength_weights_heavy = factor(equip_strength_weights_heavy),
equip_strength_resistanceband = factor(equip_strength_resistanceband),
equip_workout_mat = factor(equip_workout_mat),
has_closed_captions = factor(has_closed_captions),
has_pedaling_metrics = factor(has_pedaling_metrics)
)

```

The data was split in a 80% training, 20% testing split.

```

data_split <- data %>%
  initial_split(prop = 0.8, strata = "overall_rating_count")

data_train <- training(data_split)
dim(data_train)

## [1] 22100    36

data_test <- testing(data_split)
dim(data_test)

## [1] 5527    36

```

Model Building

- linear regression

```

data_lm = lm(overall_rating_count ~ content_format + difficulty_estimate + overall_estimate + difficulty_rating_avg + duration_minutes + explicit_rating + fitness_discipline_display_name + has_closed_captions + has_pedaling_metrics + length_minutes + location + overall_rating_avg + instructor_name + date + day_time_hour + year, data = data_train)

summary(data_lm)

##
## Call:
## lm(formula = overall_rating_count ~ content_format + difficulty_estimate +
##     overall_estimate + difficulty_rating_avg + difficulty_rating_count +
##     duration_minutes + explicit_rating + fitness_discipline_display_name +
##     has_closed_captions + has_pedaling_metrics + length_minutes +
##     location + overall_rating_avg + instructor_name + date +
##     day_time_hour + year, data = data_train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -69013  -1096      41    1053   98159
##
## Coefficients: (5 not defined because of singularities)
##              Estimate Std. Error t value
## (Intercept)    1.017e+02  4.287e+03   0.024
## content_formatvideo    4.385e+03  4.310e+02  10.175
## difficulty_estimate  -5.733e+02  3.461e+01 -16.566
## overall_estimate    -7.766e+03  3.062e+03  -2.536
## difficulty_rating_avg              NA              NA      NA
## difficulty_rating_count    1.114e+00  1.975e-03 564.012
## duration_minutes     5.074e+02  4.627e+01  10.966

```

## explicit_rating	-8.694e+00	6.881e+01	-0.126
## fitness_discipline_display_nameCardio	-3.745e+02	4.301e+02	-0.871
## fitness_discipline_display_nameCycling	-1.844e+03	3.252e+02	-5.671
## fitness_discipline_display_nameMeditation	9.111e+03	5.483e+02	16.617
## fitness_discipline_display_nameRunning	3.956e+03	3.926e+02	10.075
## fitness_discipline_display_nameStrength	1.103e+03	3.719e+02	2.965
## fitness_discipline_display_nameStretching	4.359e+03	4.110e+02	10.606
## fitness_discipline_display_nameTread Bootcamp	4.337e+03	4.016e+02	10.799
## fitness_discipline_display_nameWalking	3.988e+03	4.072e+02	9.794
## fitness_discipline_display_nameYoga	2.944e+03	5.379e+02	5.473
## has_closed_captionsTRUE	-5.894e+01	2.204e+02	-0.267
## has_pedaling_metricsTRUE	NA	NA	NA
## length_minutes	-5.149e+02	4.554e+01	-11.306
## locationevent-01	6.974e+03	2.823e+03	2.470
## locationnyc	1.156e+04	7.553e+02	15.312
## locationnyc_audiobooth	1.100e+04	8.260e+02	13.311
## locationnyc-gw-tread	3.886e+03	7.322e+02	5.307
## locationnyc-int-flex	2.577e+03	7.820e+02	3.295
## locationpsl-studio-1	1.020e+04	3.285e+03	3.104
## locationpsl-studio-2	6.351e+03	3.163e+03	2.008
## locationpsl-studio-3	8.648e+03	3.257e+03	2.656
## locationpsny-studio-1	8.213e+03	7.366e+02	11.150
## locationpsny-studio-2	6.803e+03	7.693e+02	8.844
## locationpsny-studio-3	7.182e+03	7.115e+02	10.095
## locationpsny-studio-4	4.655e+03	7.166e+02	6.496
## locationtread-remote-broadcast	1.363e+03	9.157e+02	1.489
## locationuk	1.037e+04	3.284e+03	3.158
## locationuk-bike-remote-broadcast	9.915e+03	3.327e+03	2.980
## locationuk-strength	8.914e+03	3.302e+03	2.700
## locationus-bike-remote-broadcast	1.140e+04	8.205e+02	13.893
## locationyoga-remote-broadcast	4.579e+03	9.002e+02	5.087
## overall_rating_avg	NA	NA	NA
## instructor_nameAditi Shah	-9.632e+02	2.666e+03	-0.361
## instructor_nameAdrian & Callie	1.188e+03	4.586e+03	0.259
## instructor_nameAdrian & Jess	6.057e+02	4.658e+03	0.130
## instructor_nameAdrian & Tunde	-2.089e+01	4.595e+03	-0.005
## instructor_nameAdrian Williams	3.416e+02	2.683e+03	0.127
## instructor_nameAlex & Jenn	-2.508e+03	4.667e+03	-0.537
## instructor_nameAlex & Tunde	-7.457e+03	3.455e+03	-2.159
## instructor_nameAlex Toussaint	-2.965e+02	2.680e+03	-0.111
## instructor_nameAlly & Emma	2.013e+03	3.760e+03	0.535
## instructor_nameAlly & Hannah	1.043e+03	4.584e+03	0.228
## instructor_nameAlly Love	4.320e+02	2.678e+03	0.161
## instructor_nameAndy Speer	5.628e+02	2.681e+03	0.210
## instructor_nameAnna Greenberg	-5.685e+02	2.666e+03	-0.213
## instructor_nameBeccs & Tunde	-2.064e+03	4.571e+03	-0.452
## instructor_nameBeccs Gentry	5.815e+02	2.682e+03	0.217
## instructor_nameBen Alldis	-5.744e+01	1.772e+03	-0.032
## instructor_nameBenny Adami	5.817e+02	2.214e+03	0.263
## instructor_nameBradley Rose	-4.052e+01	1.793e+03	-0.023
## instructor_nameCallie & Hannah	-1.770e+03	4.584e+03	-0.386
## instructor_nameCallie & Jess	1.634e+03	4.584e+03	0.356
## instructor_nameCallie Gullickson	-7.934e+01	2.692e+03	-0.029
## instructor_nameCamila Ramón	2.610e+03	2.695e+03	0.968

## instructor_nameCharlotte Weidenbach	-1.377e+03	2.619e+03	-0.526
## instructor_nameChase & Jess	-2.195e+03	4.745e+03	-0.463
## instructor_nameChase Tucker	5.750e+02	2.683e+03	0.214
## instructor_nameChelsea & Denis	5.733e+02	4.591e+03	0.125
## instructor_nameChelsea Jackson Roberts	-6.152e+02	2.669e+03	-0.231
## instructor_nameChristian Vande Velde	-2.827e+03	2.908e+03	-0.972
## instructor_nameChristine D'Ercole	7.734e+02	2.679e+03	0.289
## instructor_nameCliff & Hannah	3.466e+02	4.022e+03	0.086
## instructor_nameCliff Dwenger	1.307e+03	1.943e+03	0.673
## instructor_nameCody & Emma	-3.474e+03	3.442e+03	-1.009
## instructor_nameCody & Jess	1.531e+03	4.580e+03	0.334
## instructor_nameCody Rigsby	-4.645e+02	2.678e+03	-0.173
## instructor_nameDaniel McKenna	3.216e+02	2.696e+03	0.119
## instructor_nameDenis & Matt	-3.362e+03	4.612e+03	-0.729
## instructor_nameDenis Morton	5.048e+01	2.670e+03	0.019
## instructor_nameEmma Lovewell	-5.604e+01	2.679e+03	-0.021
## instructor_nameErik Jäger	7.559e+02	1.847e+03	0.409
## instructor_nameHannah & Leanne	9.067e+02	3.295e+03	0.275
## instructor_nameHannah Corbin	5.883e+02	2.678e+03	0.220
## instructor_nameHannah Frankson	-1.788e+02	1.783e+03	-0.100
## instructor_nameIrène Scholz	7.618e+02	1.908e+03	0.399
## instructor_nameJeffrey McEachern	-1.147e+03	2.142e+03	-0.535
## instructor_nameJenn Sherman	5.225e+02	2.679e+03	0.195
## instructor_nameJermaine Johnson	-9.230e+02	1.566e+03	-0.589
## instructor_nameJess King	4.715e+02	2.679e+03	0.176
## instructor_nameJess Sims	8.409e+01	2.680e+03	0.031
## instructor_nameJon Hosking	-1.201e+03	1.577e+03	-0.762
## instructor_nameJoslyn & Susie	1.987e+03	4.042e+03	0.492
## instructor_nameJoslyn Thompson Rule	-1.135e+03	1.570e+03	-0.723
## instructor_nameKendall Toole	-1.524e+03	2.681e+03	-0.569
## instructor_nameKirra Michel	-7.172e+02	2.675e+03	-0.268
## instructor_nameKirsten & Robin	7.085e+01	4.578e+03	0.015
## instructor_nameKirsten & Tunde	-2.497e+03	4.590e+03	-0.544
## instructor_nameKirsten Ferguson	5.167e+02	2.700e+03	0.191
## instructor_nameKristin & Ross	6.213e+01	4.581e+03	0.014
## instructor_nameKristin McGee	-1.061e+03	2.665e+03	-0.398
## instructor_nameLeanne Hainsby	-1.995e+02	1.780e+03	-0.112
## instructor_nameMarcel & Tunde	-1.902e+03	4.591e+03	-0.414
## instructor_nameMarcel Dinkins	5.731e+02	2.697e+03	0.212
## instructor_nameMarcel Maurer	-2.180e+01	1.961e+03	-0.011
## instructor_nameMariana Fernández	-2.191e+03	2.676e+03	-0.819
## instructor_nameMarina Andresen	-1.677e+03	4.014e+03	-0.418
## instructor_nameMatt & Tunde	-2.046e+03	4.589e+03	-0.446
## instructor_nameMatt Wilpers	2.508e+02	2.678e+03	0.094
## instructor_nameMatty & Tunde	-3.260e+03	5.015e+03	-0.650
## instructor_nameMatty Maggiasco	5.777e+02	2.682e+03	0.215
## instructor_nameMayla Wedekind	1.062e+03	1.933e+03	0.549
## instructor_nameMila Lazar	2.388e+02	2.210e+03	0.108
## instructor_nameMultiple Instructors	-9.877e+02	2.861e+03	-0.345
## instructor_nameNico & Ross	-2.044e+03	4.587e+03	-0.445
## instructor_nameNico Sarani	-9.993e+02	2.686e+03	-0.372
## instructor_nameOlivia & Tunde	-1.240e+03	4.542e+03	-0.273
## instructor_nameOlivia Amato	-2.320e+02	2.680e+03	-0.087
## instructor_nameRad Lopez	5.244e+02	2.691e+03	0.195

## instructor_nameRebecca & Tunde	-2.636e+03	4.600e+03	-0.573
## instructor_nameRebecca Kennedy	5.070e+02	2.682e+03	0.189
## instructor_nameRobin Arzón	2.115e+02	2.679e+03	0.079
## instructor_nameRoss Rayburn	-4.731e+02	2.666e+03	-0.177
## instructor_nameSam Yo	-7.943e+01	1.781e+03	-0.045
## instructor_nameSelena Samuela	2.517e+02	2.682e+03	0.094
## instructor_nameSusie Chan	-1.051e+03	1.566e+03	-0.671
## instructor_nameTobias Heinze	NA	NA	NA
## instructor_nameTunde Oyeneyin	5.647e+02	2.681e+03	0.211
## date01/01/2021	-3.568e+03	1.780e+03	-2.005
## date01/01/2022	-2.833e+03	1.751e+03	-1.618
## date01/02/2020	5.299e+02	1.403e+03	0.378
## date01/02/2021	-4.409e+03	1.711e+03	-2.577
## date01/02/2022	-1.197e+03	1.258e+03	-0.952
## date01/03/2020	3.125e+03	1.418e+03	2.204
## date01/03/2021	-2.999e+03	1.314e+03	-2.283
## date01/03/2022	-1.139e+03	1.271e+03	-0.896
## date01/04/2019	-5.107e+02	1.364e+03	-0.374
## date01/04/2020	2.420e+03	1.612e+03	1.501
## date01/04/2021	-2.806e+03	1.412e+03	-1.987
## date01/04/2022	-9.790e+02	1.293e+03	-0.757
## date01/05/2019	-4.250e+02	1.502e+03	-0.283
## date01/05/2020	4.584e+03	2.167e+03	2.115
## date01/05/2021	-1.502e+03	1.375e+03	-1.093
## date01/05/2022	-1.963e+01	1.411e+03	-0.014
## date01/06/2019	5.357e+02	1.605e+03	0.334
## date01/06/2020	2.625e+03	1.541e+03	1.703
## date01/06/2021	-2.494e+03	1.306e+03	-1.909
## date01/07/2019	-5.610e+02	1.389e+03	-0.404
## date01/07/2020	1.694e+03	1.401e+03	1.209
## date01/07/2021	-9.474e+02	1.375e+03	-0.689
## date01/08/2019	-1.331e+03	1.299e+03	-1.025
## date01/08/2020	1.136e+03	1.512e+03	0.751
## date01/08/2021	-1.665e+03	1.657e+03	-1.005
## date01/09/2019	3.885e+02	1.478e+03	0.263
## date01/09/2020	-8.136e+01	1.385e+03	-0.059
## date01/09/2021	-1.022e+03	1.310e+03	-0.781
## date01/10/2019	6.061e+02	1.355e+03	0.447
## date01/10/2020	-2.692e+03	1.466e+03	-1.836
## date01/10/2021	-1.147e+03	1.367e+03	-0.839
## date01/11/2019	-4.669e+01	1.356e+03	-0.034
## date01/11/2020	-3.749e+03	1.465e+03	-2.559
## date01/11/2021	-1.005e+03	1.272e+03	-0.790
## date01/12/2019	3.761e+02	1.648e+03	0.228
## date01/12/2020	-3.440e+03	1.336e+03	-2.575
## date01/12/2021	-1.591e+03	1.295e+03	-1.228
## date02/01/2019	-1.784e+03	3.830e+03	-0.466
## date02/01/2020	-3.147e+02	1.292e+03	-0.243
## date02/01/2021	-5.677e+03	1.712e+03	-3.317
## date02/02/2020	2.658e+01	1.455e+03	0.018
## date02/02/2021	1.083e+03	1.428e+03	0.758
## date02/02/2022	-1.286e+03	1.265e+03	-1.017
## date02/03/2020	1.306e+03	1.364e+03	0.957
## date02/03/2021	-2.780e+03	1.337e+03	-2.079

## date02/03/2022	-9.453e+02	1.331e+03	-0.710
## date02/04/2019	8.479e+02	1.345e+03	0.630
## date02/04/2020	4.326e+03	1.659e+03	2.608
## date02/04/2021	-3.063e+03	1.487e+03	-2.060
## date02/04/2022	-6.145e+02	1.449e+03	-0.424
## date02/05/2019	-1.224e+03	1.532e+03	-0.799
## date02/05/2020	3.773e+03	2.002e+03	1.885
## date02/05/2021	-1.590e+03	1.347e+03	-1.180
## date02/06/2019	-4.836e+02	1.567e+03	-0.309
## date02/06/2020	2.907e+02	2.396e+03	0.121
## date02/06/2021	-2.455e+03	1.322e+03	-1.857
## date02/07/2019	-1.391e+02	1.293e+03	-0.108
## date02/07/2020	1.298e+03	1.364e+03	0.951
## date02/07/2021	-1.683e+03	1.338e+03	-1.258
## date02/08/2019	6.181e+02	1.403e+03	0.441
## date02/08/2020	1.632e+03	1.364e+03	1.196
## date02/08/2021	-7.914e+02	1.356e+03	-0.584
## date02/09/2019	2.471e+02	1.504e+03	0.164
## date02/09/2020	-1.013e+03	1.374e+03	-0.737
## date02/09/2021	-1.198e+03	1.366e+03	-0.877
## date02/10/2019	-3.395e+02	1.292e+03	-0.263
## date02/10/2020	-3.709e+03	1.429e+03	-2.595
## date02/10/2021	-1.424e+03	1.367e+03	-1.041
## date02/11/2019	9.651e+02	1.502e+03	0.643
## date02/11/2020	-3.390e+03	1.429e+03	-2.372
## date02/11/2021	-1.445e+03	1.276e+03	-1.133
## date02/12/2019	1.316e+02	1.389e+03	0.095
## date02/12/2020	-4.514e+03	1.428e+03	-3.162
## date02/12/2021	-1.439e+03	1.305e+03	-1.102
## date03/01/2020	4.163e+01	1.354e+03	0.031
## date03/01/2021	-1.629e+02	1.781e+03	-0.091
## date03/01/2022	-3.789e+02	1.317e+03	-0.288
## date03/02/2020	-4.004e+01	1.326e+03	-0.030
## date03/02/2021	-3.464e+03	1.355e+03	-2.557
## date03/02/2022	-3.588e+02	1.325e+03	-0.271
## date03/03/2020	1.218e+03	1.261e+03	0.966
## date03/03/2021	-3.821e+03	1.330e+03	-2.873
## date03/03/2022	-3.106e+01	1.311e+03	-0.024
## date03/04/2019	-2.332e+02	1.327e+03	-0.176
## date03/04/2020	-6.530e-01	1.450e+03	0.000
## date03/04/2021	-2.295e+03	1.399e+03	-1.640
## date03/04/2022	-6.137e+02	1.467e+03	-0.418
## date03/05/2019	3.119e+02	1.563e+03	0.200
## date03/05/2020	1.979e+03	1.894e+03	1.045
## date03/05/2021	-1.937e+03	1.305e+03	-1.484
## date03/06/2019	-6.839e+02	1.458e+03	-0.469
## date03/06/2020	1.414e+02	1.448e+03	0.098
## date03/06/2021	-1.319e+03	1.355e+03	-0.974
## date03/07/2019	-5.691e+01	1.327e+03	-0.043
## date03/07/2020	1.228e+02	1.711e+03	0.072
## date03/07/2021	-2.024e+03	1.448e+03	-1.398
## date03/08/2019	3.933e+02	1.564e+03	0.252
## date03/08/2020	1.249e+03	1.386e+03	0.902
## date03/08/2021	-1.829e+03	1.314e+03	-1.391

## date03/09/2019	-4.703e+02	1.311e+03	-0.359
## date03/09/2020	6.447e+01	1.398e+03	0.046
## date03/09/2021	-1.230e+03	1.330e+03	-0.925
## date03/10/2019	-5.690e+02	1.287e+03	-0.442
## date03/10/2020	-4.729e+03	1.413e+03	-3.347
## date03/10/2021	-1.234e+03	1.516e+03	-0.814
## date03/11/2019	4.735e+02	1.456e+03	0.325
## date03/11/2020	-5.055e+03	2.408e+03	-2.099
## date03/11/2021	-1.252e+03	1.276e+03	-0.982
## date03/12/2019	6.826e+02	1.313e+03	0.520
## date03/12/2020	-4.928e+03	1.539e+03	-3.201
## date03/12/2021	-1.178e+03	1.306e+03	-0.902
## date04/01/2020	1.182e+03	1.477e+03	0.800
## date04/01/2021	-4.955e+03	1.399e+03	-3.543
## date04/01/2022	-9.038e+02	1.310e+03	-0.690
## date04/02/2020	1.170e+02	1.267e+03	0.092
## date04/02/2021	-4.543e+03	1.412e+03	-3.216
## date04/02/2022	-1.463e+03	1.347e+03	-1.086
## date04/03/2020	5.219e+02	1.287e+03	0.406
## date04/03/2021	-1.758e+03	1.374e+03	-1.279
## date04/03/2022	-1.490e+03	1.285e+03	-1.160
## date04/04/2019	-3.620e+02	1.403e+03	-0.258
## date04/04/2020	5.572e+02	2.825e+03	0.197
## date04/04/2022	-1.177e+03	1.294e+03	-0.910
## date04/05/2019	-7.419e+01	1.436e+03	-0.052
## date04/05/2020	1.001e+03	2.181e+03	0.459
## date04/05/2021	-1.624e+03	1.330e+03	-1.221
## date04/06/2019	-5.576e+02	1.418e+03	-0.393
## date04/06/2020	4.606e+03	1.491e+03	3.089
## date04/06/2021	-1.843e+03	1.323e+03	-1.393
## date04/07/2019	2.170e+02	1.568e+03	0.138
## date04/07/2020	6.718e+03	2.394e+03	2.806
## date04/08/2019	-4.309e+02	1.603e+03	-0.269
## date04/08/2020	-8.866e+01	1.344e+03	-0.066
## date04/08/2021	-9.644e+02	1.322e+03	-0.729
## date04/09/2019	-5.442e+02	1.355e+03	-0.402
## date04/09/2020	3.502e+02	1.414e+03	0.248
## date04/09/2021	-9.252e+02	1.540e+03	-0.601
## date04/10/2019	-8.089e+02	1.354e+03	-0.597
## date04/10/2020	-3.399e+03	1.488e+03	-2.285
## date04/10/2021	-8.984e+02	1.284e+03	-0.699
## date04/11/2019	6.806e+01	1.334e+03	0.051
## date04/11/2020	-3.819e+03	1.376e+03	-2.776
## date04/11/2021	-1.412e+03	1.299e+03	-1.087
## date04/12/2019	6.121e+01	1.281e+03	0.048
## date04/12/2020	-3.976e+03	1.711e+03	-2.323
## date04/12/2021	-1.008e+03	1.416e+03	-0.712
## date05/01/2020	5.459e+02	1.502e+03	0.364
## date05/01/2021	-8.156e+02	1.345e+03	-0.606
## date05/01/2022	-1.297e+03	1.268e+03	-1.023
## date05/02/2020	4.706e+02	1.267e+03	0.371
## date05/02/2021	-2.506e+03	1.430e+03	-1.753
## date05/02/2022	-8.871e+02	1.542e+03	-0.575
## date05/03/2020	8.576e+01	1.279e+03	0.067

## date05/03/2021	-3.569e+03	1.414e+03	-2.524
## date05/03/2022	-5.624e+02	1.431e+03	-0.393
## date05/04/2019	-5.938e+02	1.437e+03	-0.413
## date05/04/2020	5.854e+03	2.146e+03	2.728
## date05/04/2022	-7.860e+02	1.223e+03	-0.643
## date05/05/2019	-3.280e+02	1.648e+03	-0.199
## date05/05/2020	-1.413e+03	1.891e+03	-0.747
## date05/05/2021	-2.748e+03	1.344e+03	-2.044
## date05/06/2019	-3.813e+02	1.328e+03	-0.287
## date05/06/2020	3.853e+03	1.447e+03	2.663
## date05/06/2021	-1.291e+03	1.613e+03	-0.801
## date05/07/2019	-5.315e+02	1.531e+03	-0.347
## date05/08/2019	-8.326e+02	1.454e+03	-0.573
## date05/08/2020	9.052e+02	1.373e+03	0.659
## date05/08/2021	-4.043e+02	1.354e+03	-0.299
## date05/09/2019	-4.879e+02	1.287e+03	-0.379
## date05/09/2020	-1.621e+02	1.345e+03	-0.121
## date05/09/2021	-1.484e+03	1.374e+03	-1.080
## date05/10/2018	-3.684e+04	3.873e+03	-9.511
## date05/10/2019	-3.686e+01	1.477e+03	-0.025
## date05/10/2020	-4.346e+03	1.374e+03	-3.163
## date05/10/2021	-1.686e+03	1.264e+03	-1.334
## date05/11/2019	-3.853e+02	1.283e+03	-0.300
## date05/11/2020	-4.124e+03	1.399e+03	-2.949
## date05/11/2021	-1.070e+03	1.347e+03	-0.794
## date05/12/2019	-4.629e+02	1.312e+03	-0.353
## date05/12/2020	-4.126e+03	1.466e+03	-2.815
## date05/12/2021	-1.524e+03	1.415e+03	-1.077
## date06/01/2020	4.375e+01	1.344e+03	0.033
## date06/01/2021	-3.597e+03	1.386e+03	-2.594
## date06/01/2022	-1.237e+03	1.310e+03	-0.944
## date06/02/2020	3.579e+02	1.264e+03	0.283
## date06/02/2021	-4.072e+03	1.447e+03	-2.814
## date06/02/2022	-1.045e+03	1.377e+03	-0.759
## date06/03/2020	6.212e+02	1.319e+03	0.471
## date06/03/2021	-1.465e+03	1.713e+03	-0.855
## date06/03/2022	-3.947e+02	1.481e+03	-0.266
## date06/04/2019	2.650e+02	1.602e+03	0.165
## date06/04/2020	-5.044e+03	2.153e+03	-2.343
## date06/04/2021	-2.315e+03	1.243e+03	-1.862
## date06/04/2022	-1.160e+03	1.299e+03	-0.893
## date06/05/2019	-7.142e+02	1.389e+03	-0.514
## date06/05/2020	-1.890e+02	1.802e+03	-0.105
## date06/05/2021	-1.691e+03	1.386e+03	-1.220
## date06/06/2019	-4.005e+00	1.299e+03	-0.003
## date06/06/2020	1.767e+03	1.513e+03	1.168
## date06/06/2021	-1.360e+03	1.612e+03	-0.844
## date06/07/2019	1.248e+03	1.979e+03	0.630
## date06/08/2019	4.576e+01	1.327e+03	0.034
## date06/08/2020	-7.956e+02	1.412e+03	-0.563
## date06/08/2021	-1.757e+03	1.387e+03	-1.267
## date06/09/2019	-6.011e+02	1.377e+03	-0.437
## date06/09/2020	-1.161e+03	1.430e+03	-0.812
## date06/09/2021	-1.479e+03	1.428e+03	-1.036

## date06/10/2019	-1.790e+02	1.502e+03	-0.119
## date06/10/2020	-3.869e+03	1.365e+03	-2.835
## date06/10/2021	-2.870e+02	1.284e+03	-0.224
## date06/11/2019	1.357e+02	1.344e+03	0.101
## date06/11/2020	-3.013e+03	1.414e+03	-2.130
## date06/11/2021	-1.215e+02	1.402e+03	-0.087
## date06/12/2019	-2.497e+02	1.354e+03	-0.184
## date06/12/2020	-3.762e+03	1.712e+03	-2.198
## date06/12/2021	-1.240e+03	1.224e+03	-1.013
## date07/01/2020	4.847e+02	1.345e+03	0.360
## date07/01/2021	-5.143e+03	1.398e+03	-3.680
## date07/01/2022	-1.111e+03	1.275e+03	-0.872
## date07/02/2020	6.647e+02	1.335e+03	0.498
## date07/02/2021	-4.423e+03	1.512e+03	-2.926
## date07/02/2022	-1.001e+03	1.325e+03	-0.755
## date07/03/2020	1.293e+03	1.457e+03	0.887
## date07/03/2021	-1.876e+03	1.540e+03	-1.218
## date07/03/2022	-7.000e+02	1.331e+03	-0.526
## date07/04/2019	6.345e+01	1.565e+03	0.041
## date07/04/2020	6.530e+03	3.834e+03	1.703
## date07/04/2021	-2.452e+03	1.354e+03	-1.812
## date07/04/2022	-9.754e+02	1.273e+03	-0.766
## date07/05/2019	-2.894e+01	1.376e+03	-0.021
## date07/05/2020	2.901e+03	2.175e+03	1.334
## date07/05/2021	-2.484e+03	1.375e+03	-1.806
## date07/06/2019	-5.733e+02	1.532e+03	-0.374
## date07/06/2020	3.702e+03	1.542e+03	2.401
## date07/06/2021	-2.118e+03	1.374e+03	-1.542
## date07/07/2019	-2.466e+02	1.565e+03	-0.158
## date07/07/2020	2.194e+03	1.397e+03	1.570
## date07/07/2021	-1.325e+03	1.282e+03	-1.033
## date07/08/2019	-6.683e+02	1.404e+03	-0.476
## date07/08/2020	7.336e+02	1.539e+03	0.477
## date07/08/2021	-1.278e+03	1.540e+03	-0.830
## date07/09/2019	-6.591e+02	1.564e+03	-0.421
## date07/09/2020	-5.014e+02	1.384e+03	-0.362
## date07/09/2021	-3.216e+02	1.303e+03	-0.247
## date07/10/2019	-4.634e+02	1.335e+03	-0.347
## date07/10/2020	-3.964e+03	1.399e+03	-2.835
## date07/10/2021	-8.322e+02	1.294e+03	-0.643
## date07/11/2019	1.198e+02	1.269e+03	0.094
## date07/11/2020	-2.890e+03	1.658e+03	-1.743
## date07/11/2021	-1.054e+03	1.388e+03	-0.759
## date07/12/2019	8.162e+02	1.456e+03	0.560
## date07/12/2020	-5.644e+03	1.413e+03	-3.993
## date07/12/2021	-1.246e+03	1.261e+03	-0.988
## date08/01/2020	9.582e+02	1.293e+03	0.741
## date08/01/2021	-4.211e+03	1.486e+03	-2.834
## date08/01/2022	-9.461e+02	1.449e+03	-0.653
## date08/02/2020	1.673e+03	1.541e+03	1.086
## date08/02/2021	-3.817e+03	1.374e+03	-2.778
## date08/02/2022	-7.046e+02	1.299e+03	-0.542
## date08/03/2020	1.332e+03	1.516e+03	0.879
## date08/03/2021	-2.805e+03	1.354e+03	-2.072

## date08/03/2022	-1.166e+03	1.312e+03	-0.889
## date08/04/2019	-6.268e+02	1.376e+03	-0.455
## date08/04/2020	9.591e+03	2.826e+03	3.393
## date08/04/2021	-1.923e+03	1.428e+03	-1.347
## date08/04/2022	-1.341e+03	1.356e+03	-0.989
## date08/05/2019	-4.312e+02	1.564e+03	-0.276
## date08/05/2020	3.843e+03	1.791e+03	2.146
## date08/05/2021	-9.159e+02	1.574e+03	-0.582
## date08/06/2019	1.139e+02	1.603e+03	0.071
## date08/06/2020	2.547e+03	1.416e+03	1.798
## date08/06/2021	-8.384e+02	1.295e+03	-0.647
## date08/07/2019	-2.971e+02	1.313e+03	-0.226
## date08/07/2020	2.968e+03	1.346e+03	2.205
## date08/07/2021	-9.738e+02	1.345e+03	-0.724
## date08/08/2019	-1.983e+03	1.305e+03	-1.520
## date08/08/2020	2.676e+02	1.429e+03	0.187
## date08/08/2021	-1.208e+03	1.513e+03	-0.798
## date08/09/2019	9.834e+02	1.478e+03	0.666
## date08/09/2020	-9.766e+02	1.336e+03	-0.731
## date08/09/2021	-1.130e+03	1.336e+03	-0.846
## date08/10/2019	2.191e+03	1.335e+03	1.641
## date08/10/2020	-3.548e+03	1.363e+03	-2.603
## date08/10/2021	-1.563e+03	1.311e+03	-1.193
## date08/11/2018	1.143e+03	3.841e+03	0.297
## date08/11/2019	6.542e+02	1.418e+03	0.461
## date08/11/2020	-3.664e+03	1.511e+03	-2.424
## date08/11/2021	-1.510e+03	1.294e+03	-1.167
## date08/12/2019	8.709e+02	1.648e+03	0.529
## date08/12/2020	-3.427e+03	1.464e+03	-2.341
## date08/12/2021	-6.249e+02	1.304e+03	-0.479
## date09/01/2020	3.508e+01	1.299e+03	0.027
## date09/01/2021	-5.085e+03	1.611e+03	-3.156
## date09/01/2022	-8.803e+02	1.401e+03	-0.628
## date09/02/2020	1.539e+03	1.436e+03	1.072
## date09/02/2021	-3.287e+03	1.345e+03	-2.444
## date09/02/2022	-1.374e+03	1.311e+03	-1.047
## date09/03/2020	-4.417e+02	1.335e+03	-0.331
## date09/03/2021	-3.272e+03	1.329e+03	-2.463
## date09/03/2022	-5.212e+02	1.290e+03	-0.404
## date09/04/2019	2.575e+02	1.436e+03	0.179
## date09/04/2020	7.977e+03	3.834e+03	2.081
## date09/04/2021	-2.544e+03	1.446e+03	-1.760
## date09/04/2022	-4.698e+02	1.404e+03	-0.335
## date09/05/2019	-1.104e+03	1.355e+03	-0.815
## date09/05/2020	2.604e+03	2.174e+03	1.198
## date09/05/2021	-1.418e+03	1.573e+03	-0.901
## date09/06/2019	5.130e+02	1.977e+03	0.259
## date09/06/2020	8.942e+02	1.429e+03	0.626
## date09/06/2021	-1.425e+03	1.304e+03	-1.093
## date09/07/2019	-9.377e+02	1.365e+03	-0.687
## date09/07/2020	2.063e+02	1.322e+03	0.156
## date09/07/2021	-1.825e+03	1.338e+03	-1.364
## date09/08/2019	-5.025e+02	1.456e+03	-0.345
## date09/08/2020	2.434e+02	1.428e+03	0.170

## date09/08/2021	-1.780e+03	1.414e+03	-1.259
## date09/09/2019	-9.075e+02	1.390e+03	-0.653
## date09/09/2020	5.077e+02	1.322e+03	0.384
## date09/09/2021	-1.121e+03	1.337e+03	-0.838
## date09/10/2019	3.119e+02	1.304e+03	0.239
## date09/10/2020	-3.807e+03	1.429e+03	-2.665
## date09/10/2021	-1.226e+03	1.332e+03	-0.920
## date09/11/2019	4.940e+02	1.530e+03	0.323
## date09/11/2020	-4.392e+03	1.355e+03	-3.242
## date09/11/2021	-1.791e+03	1.284e+03	-1.395
## date09/12/2019	-4.158e+02	1.319e+03	-0.315
## date09/12/2020	-3.245e+03	1.466e+03	-2.214
## date09/12/2021	-1.784e+03	1.338e+03	-1.333
## date10/01/2020	2.328e+03	1.360e+03	1.712
## date10/01/2021	-2.253e+03	1.712e+03	-1.316
## date10/01/2022	-1.754e+03	1.365e+03	-1.285
## date10/02/2020	6.426e+02	1.436e+03	0.447
## date10/02/2021	-3.923e+03	1.338e+03	-2.932
## date10/02/2022	-1.442e+03	1.289e+03	-1.119
## date10/03/2020	1.068e+03	1.299e+03	0.823
## date10/03/2021	-3.562e+03	1.355e+03	-2.628
## date10/03/2022	-7.996e+02	1.340e+03	-0.597
## date10/04/2019	5.620e+02	1.530e+03	0.367
## date10/04/2020	6.452e+03	2.402e+03	2.686
## date10/04/2021	-1.465e+03	1.541e+03	-0.950
## date10/04/2022	-1.054e+03	1.389e+03	-0.759
## date10/05/2019	3.277e+01	1.420e+03	0.023
## date10/05/2020	3.196e+03	2.426e+03	1.317
## date10/05/2021	-2.226e+03	1.322e+03	-1.684
## date10/06/2019	-6.216e+02	1.502e+03	-0.414
## date10/06/2020	2.235e+03	1.467e+03	1.523
## date10/06/2021	-1.669e+03	1.445e+03	-1.155
## date10/07/2019	-3.598e+02	1.312e+03	-0.274
## date10/07/2020	2.151e+02	1.486e+03	0.145
## date10/07/2021	-1.126e+03	1.377e+03	-0.818
## date10/08/2019	-1.900e+02	1.563e+03	-0.122
## date10/08/2020	-7.435e+02	1.487e+03	-0.500
## date10/08/2021	-8.953e+02	1.303e+03	-0.687
## date10/09/2019	-5.365e+02	1.256e+03	-0.427
## date10/09/2020	-8.761e+02	1.353e+03	-0.647
## date10/09/2021	-5.614e+02	1.355e+03	-0.414
## date10/10/2019	7.224e+01	1.306e+03	0.055
## date10/10/2020	-4.770e+03	1.466e+03	-3.255
## date10/11/2019	2.791e+02	1.504e+03	0.186
## date10/11/2020	-7.457e+02	1.398e+03	-0.533
## date10/11/2021	-1.198e+03	1.272e+03	-0.942
## date10/12/2019	4.487e+01	1.320e+03	0.034
## date10/12/2020	-4.793e+03	1.511e+03	-3.172
## date10/12/2021	-1.634e+03	1.430e+03	-1.143
## date11/01/2020	6.689e+02	1.502e+03	0.445
## date11/01/2021	-3.570e+03	1.347e+03	-2.651
## date11/01/2022	-1.706e+03	1.299e+03	-1.314
## date11/02/2020	2.191e+03	1.294e+03	1.693
## date11/02/2021	-3.235e+03	1.385e+03	-2.336

## date11/02/2022	-1.461e+03	1.323e+03	-1.104
## date11/03/2020	1.756e+03	1.354e+03	1.297
## date11/03/2021	-1.536e+03	1.363e+03	-1.127
## date11/03/2022	-1.228e+03	1.347e+03	-0.912
## date11/04/2019	-1.039e+03	1.405e+03	-0.739
## date11/04/2021	-2.765e+03	1.465e+03	-1.888
## date11/04/2022	-7.539e+02	1.338e+03	-0.563
## date11/05/2019	-2.487e+02	1.649e+03	-0.151
## date11/05/2020	3.483e+03	1.886e+03	1.847
## date11/05/2021	-1.625e+03	1.323e+03	-1.228
## date11/06/2019	-7.060e+01	1.305e+03	-0.054
## date11/06/2020	2.007e+03	1.717e+03	1.169
## date11/06/2021	-1.824e+03	1.365e+03	-1.336
## date11/07/2019	-1.467e+03	1.298e+03	-1.131
## date11/07/2020	2.964e+03	1.465e+03	2.023
## date11/07/2021	-1.770e+03	1.574e+03	-1.124
## date11/08/2019	-6.903e+02	1.564e+03	-0.441
## date11/08/2020	2.451e+02	1.429e+03	0.172
## date11/08/2021	-1.468e+03	1.329e+03	-1.105
## date11/09/2019	1.546e+02	1.319e+03	0.117
## date11/09/2020	2.533e+03	1.486e+03	1.704
## date11/09/2021	-8.743e+02	1.364e+03	-0.641
## date11/10/2018	2.418e+03	2.837e+03	0.852
## date11/10/2019	-1.932e+01	1.312e+03	-0.015
## date11/10/2020	-4.299e+03	1.465e+03	-2.934
## date11/10/2021	-8.038e+02	1.869e+03	-0.430
## date11/11/2019	-4.257e+02	1.281e+03	-0.332
## date11/11/2020	-3.835e+03	1.399e+03	-2.742
## date11/11/2021	-1.443e+03	1.285e+03	-1.123
## date11/12/2019	6.899e+02	1.324e+03	0.521
## date11/12/2020	-4.355e+03	1.445e+03	-3.013
## date11/12/2021	4.472e+02	1.468e+03	0.305
## date12/01/2020	1.190e+03	1.419e+03	0.839
## date12/01/2021	-1.748e+03	1.374e+03	-1.272
## date12/01/2022	-1.143e+03	1.285e+03	-0.889
## date12/02/2020	4.072e+02	1.311e+03	0.311
## date12/02/2021	-2.796e+03	1.611e+03	-1.736
## date12/02/2022	-1.060e+03	1.402e+03	-0.756
## date12/03/2020	1.623e+03	1.312e+03	1.237
## date12/03/2021	-1.100e+03	1.388e+03	-0.793
## date12/03/2022	-6.486e+02	1.432e+03	-0.453
## date12/04/2019	2.203e+01	1.419e+03	0.016
## date12/04/2021	-1.435e+03	1.364e+03	-1.053
## date12/04/2022	-1.176e+03	1.326e+03	-0.887
## date12/05/2019	5.172e+02	1.532e+03	0.338
## date12/05/2020	3.155e+03	1.724e+03	1.830
## date12/05/2021	-2.058e+03	1.322e+03	-1.558
## date12/06/2019	-6.151e+02	1.419e+03	-0.434
## date12/06/2020	2.729e+03	1.488e+03	1.834
## date12/06/2021	-8.228e+02	1.513e+03	-0.544
## date12/07/2019	1.692e+01	1.376e+03	0.012
## date12/07/2020	1.032e+03	1.487e+03	0.694
## date12/07/2021	-8.618e+02	1.346e+03	-0.640
## date12/08/2019	-8.976e+02	1.389e+03	-0.646

## date12/08/2020	1.004e+03	1.341e+03	0.749
## date12/08/2021	-7.609e+02	1.329e+03	-0.572
## date12/09/2019	8.109e+02	1.283e+03	0.632
## date12/09/2020	-5.431e+02	1.447e+03	-0.375
## date12/09/2021	-1.445e+03	1.488e+03	-0.971
## date12/10/2019	8.819e+02	1.533e+03	0.575
## date12/10/2020	-3.763e+03	1.386e+03	-2.716
## date12/10/2021	-2.596e+03	2.832e+03	-0.917
## date12/11/2019	5.272e+01	1.293e+03	0.041
## date12/11/2020	-3.471e+03	1.338e+03	-2.594
## date12/11/2021	-1.581e+03	1.355e+03	-1.166
## date12/12/2019	-5.746e+02	1.287e+03	-0.446
## date12/12/2020	-4.921e+03	1.512e+03	-3.254
## date12/12/2021	-1.248e+03	1.467e+03	-0.850
## date13/01/2020	3.191e+03	1.327e+03	2.405
## date13/01/2021	-3.493e+03	1.399e+03	-2.497
## date13/01/2022	-4.743e+02	1.346e+03	-0.352
## date13/02/2020	1.185e+02	1.288e+03	0.092
## date13/02/2021	-2.698e+03	1.574e+03	-1.715
## date13/02/2022	-7.096e+02	1.488e+03	-0.477
## date13/03/2020	9.651e+02	1.457e+03	0.663
## date13/03/2021	-1.895e+03	1.712e+03	-1.107
## date13/03/2022	-6.873e+02	1.430e+03	-0.481
## date13/04/2019	-4.462e+02	1.606e+03	-0.278
## date13/04/2021	-2.339e+03	1.331e+03	-1.758
## date13/04/2022	-1.093e+03	1.306e+03	-0.837
## date13/05/2019	8.245e+02	1.530e+03	0.539
## date13/05/2020	2.812e+03	1.890e+03	1.488
## date13/05/2021	-1.360e+03	1.297e+03	-1.048
## date13/06/2019	-1.944e+03	1.282e+03	-1.516
## date13/06/2020	1.860e+03	1.513e+03	1.230
## date13/06/2021	-1.293e+03	1.712e+03	-0.755
## date13/07/2019	-3.363e+02	1.602e+03	-0.210
## date13/07/2020	3.995e+02	1.354e+03	0.295
## date13/07/2021	-2.059e+03	1.297e+03	-1.587
## date13/08/2019	-1.034e+03	1.530e+03	-0.676
## date13/08/2020	6.601e+02	1.386e+03	0.476
## date13/08/2021	-2.105e+03	1.347e+03	-1.563
## date13/09/2019	-2.692e+02	1.419e+03	-0.190
## date13/09/2020	-5.761e+01	1.466e+03	-0.039
## date13/09/2021	-1.670e+03	1.316e+03	-1.269
## date13/10/2019	2.254e+02	1.504e+03	0.150
## date13/10/2020	-3.876e+03	1.354e+03	-2.863
## date13/10/2021	-1.519e+03	1.272e+03	-1.195
## date13/11/2019	-6.563e+02	1.305e+03	-0.503
## date13/11/2020	-7.265e+03	1.447e+03	-5.022
## date13/11/2021	-1.080e+03	1.368e+03	-0.790
## date13/12/2019	-2.055e+02	1.377e+03	-0.149
## date13/12/2020	-4.465e+03	1.538e+03	-2.904
## date13/12/2021	-1.065e+03	1.262e+03	-0.844
## date14/01/2020	5.042e+02	1.299e+03	0.388
## date14/01/2021	-4.025e+03	1.374e+03	-2.929
## date14/01/2022	-1.224e+03	1.323e+03	-0.925
## date14/02/2020	1.895e+03	1.311e+03	1.446

## date14/02/2021	-3.208e+03	1.414e+03	-2.269
## date14/02/2022	-1.257e+03	1.264e+03	-0.994
## date14/03/2019	9.373e+02	2.411e+03	0.389
## date14/03/2020	5.005e+03	1.478e+03	3.386
## date14/03/2021	-2.066e+03	1.511e+03	-1.367
## date14/03/2022	-7.735e+02	1.289e+03	-0.600
## date14/04/2019	2.798e+02	1.772e+03	0.158
## date14/04/2020	4.597e+03	1.986e+03	2.314
## date14/04/2021	-2.571e+03	1.344e+03	-1.912
## date14/04/2022	-8.452e+02	1.293e+03	-0.654
## date14/05/2019	-6.091e+02	1.327e+03	-0.459
## date14/05/2020	3.285e+02	2.408e+03	0.136
## date14/05/2021	-1.612e+03	1.414e+03	-1.140
## date14/06/2019	-1.327e+03	1.455e+03	-0.912
## date14/06/2020	2.011e+03	1.540e+03	1.306
## date14/06/2021	-1.023e+03	1.413e+03	-0.724
## date14/07/2019	-9.832e+02	1.647e+03	-0.597
## date14/07/2020	9.150e+02	1.354e+03	0.676
## date14/07/2021	-1.378e+03	1.354e+03	-1.018
## date14/08/2019	-1.039e+03	1.388e+03	-0.748
## date14/08/2020	-4.986e+02	1.510e+03	-0.330
## date14/08/2021	-1.119e+03	1.447e+03	-0.773
## date14/09/2019	-2.060e+02	1.455e+03	-0.142
## date14/09/2020	-1.305e+03	1.427e+03	-0.914
## date14/09/2021	-1.725e+03	1.366e+03	-1.263
## date14/10/2019	-2.022e+02	1.282e+03	-0.158
## date14/10/2020	-5.467e+03	1.329e+03	-4.114
## date14/10/2021	-9.801e+02	1.389e+03	-0.706
## date14/11/2019	1.226e+03	1.260e+03	0.973
## date14/11/2020	-3.623e+03	1.465e+03	-2.473
## date14/11/2021	-1.462e+03	1.468e+03	-0.996
## date14/12/2018	1.996e+03	3.832e+03	0.521
## date14/12/2019	-2.724e+01	1.436e+03	-0.019
## date14/12/2020	-3.310e+03	1.330e+03	-2.488
## date14/12/2021	-1.474e+03	1.338e+03	-1.102
## date15/01/2020	5.621e+01	1.298e+03	0.043
## date15/01/2021	-3.341e+03	1.513e+03	-2.209
## date15/01/2022	-1.267e+03	1.377e+03	-0.920
## date15/02/2020	7.405e+03	1.477e+03	5.013
## date15/02/2021	-3.609e+03	1.345e+03	-2.684
## date15/02/2022	-1.412e+03	1.271e+03	-1.111
## date15/03/2020	3.876e+03	1.294e+03	2.996
## date15/03/2021	-2.513e+03	1.328e+03	-1.892
## date15/03/2022	-7.638e+02	1.302e+03	-0.586
## date15/04/2019	-1.137e+03	1.530e+03	-0.743
## date15/04/2021	-2.609e+03	1.375e+03	-1.898
## date15/04/2022	-1.274e+03	1.341e+03	-0.950
## date15/05/2019	-3.074e+02	1.389e+03	-0.221
## date15/05/2020	3.758e+03	2.856e+03	1.316
## date15/05/2021	-1.711e+03	1.540e+03	-1.111
## date15/06/2019	-2.354e+02	1.860e+03	-0.127
## date15/06/2020	3.489e+03	1.432e+03	2.437
## date15/06/2021	-1.769e+03	1.310e+03	-1.350
## date15/07/2019	-6.234e+02	1.419e+03	-0.439

## date15/07/2020	-5.541e+01	1.330e+03	-0.042
## date15/07/2021	-7.782e+02	1.387e+03	-0.561
## date15/08/2019	-4.468e+02	1.298e+03	-0.344
## date15/08/2020	1.734e+03	1.465e+03	1.184
## date15/08/2021	-1.658e+03	1.399e+03	-1.185
## date15/09/2019	-1.470e+03	1.477e+03	-0.996
## date15/09/2020	-1.777e+03	1.322e+03	-1.344
## date15/09/2021	-1.813e+03	1.318e+03	-1.376
## date15/10/2019	1.332e+02	1.365e+03	0.098
## date15/10/2020	-4.038e+03	1.337e+03	-3.020
## date15/10/2021	-1.310e+03	1.348e+03	-0.972
## date15/11/2019	-1.911e+01	1.322e+03	-0.014
## date15/11/2020	-2.679e+03	1.510e+03	-1.774
## date15/11/2021	-2.573e+03	1.247e+03	-2.063
## date15/12/2018	-1.554e+03	3.831e+03	-0.406
## date15/12/2019	-8.326e+01	1.402e+03	-0.059
## date15/12/2020	-2.318e+03	1.487e+03	-1.560
## date15/12/2021	-1.441e+03	1.317e+03	-1.094
## date16/01/2020	9.966e+02	1.288e+03	0.774
## date16/01/2021	-2.658e+03	1.540e+03	-1.726
## date16/01/2022	-2.035e+03	1.415e+03	-1.438
## date16/02/2020	3.848e+02	1.477e+03	0.260
## date16/02/2021	-1.638e+03	1.364e+03	-1.201
## date16/02/2022	-6.526e+02	1.285e+03	-0.508
## date16/03/2020	1.266e+03	2.402e+03	0.527
## date16/03/2021	-3.453e+02	1.299e+03	-0.266
## date16/03/2022	-1.061e+03	1.265e+03	-0.839
## date16/04/2019	8.964e+02	1.345e+03	0.667
## date16/04/2020	1.754e+04	2.829e+03	6.201
## date16/04/2021	-2.781e+03	1.512e+03	-1.839
## date16/04/2022	1.521e+02	1.515e+03	0.100
## date16/05/2019	-6.473e+02	1.403e+03	-0.461
## date16/05/2020	5.174e+03	2.165e+03	2.390
## date16/05/2021	-1.695e+03	1.487e+03	-1.140
## date16/06/2019	1.509e+02	1.705e+03	0.089
## date16/06/2020	1.349e+03	1.541e+03	0.875
## date16/06/2021	-1.990e+03	1.345e+03	-1.479
## date16/07/2019	-4.471e+02	1.312e+03	-0.341
## date16/07/2020	-1.306e+02	1.465e+03	-0.089
## date16/07/2021	-1.112e+03	1.413e+03	-0.787
## date16/08/2019	-6.394e+02	1.563e+03	-0.409
## date16/08/2020	1.872e+03	1.399e+03	1.338
## date16/08/2021	4.125e+02	1.368e+03	0.301
## date16/09/2019	-5.033e+02	1.305e+03	-0.386
## date16/09/2020	-9.589e+02	1.322e+03	-0.725
## date16/09/2021	-1.618e+03	1.338e+03	-1.209
## date16/10/2019	1.348e+02	1.364e+03	0.099
## date16/10/2020	-4.410e+03	1.400e+03	-3.151
## date16/10/2021	-3.993e+02	1.431e+03	-0.279
## date16/11/2019	4.514e+02	1.456e+03	0.310
## date16/11/2020	-4.141e+03	1.386e+03	-2.988
## date16/11/2021	-9.435e+02	1.280e+03	-0.737
## date16/12/2019	4.959e+02	1.344e+03	0.369
## date16/12/2020	-3.646e+03	1.293e+03	-2.820

## date16/12/2021	-1.133e+03	1.331e+03	-0.851
## date17/01/2019	1.485e+03	3.841e+03	0.387
## date17/01/2020	6.185e+02	1.319e+03	0.469
## date17/01/2021	-2.402e+03	1.611e+03	-1.491
## date17/01/2022	-6.806e+02	1.347e+03	-0.505
## date17/02/2020	1.125e+03	1.365e+03	0.824
## date17/02/2021	-3.144e+03	1.447e+03	-2.173
## date17/02/2022	-7.600e+02	1.331e+03	-0.571
## date17/03/2020	1.448e+03	2.588e+03	0.559
## date17/03/2021	-2.269e+03	1.338e+03	-1.696
## date17/03/2022	-1.090e+03	1.324e+03	-0.823
## date17/04/2019	-7.861e+02	1.455e+03	-0.540
## date17/04/2020	5.457e+03	2.827e+03	1.931
## date17/04/2021	-1.190e+03	1.611e+03	-0.739
## date17/04/2022	-1.009e+03	1.368e+03	-0.738
## date17/05/2019	-7.760e+02	1.377e+03	-0.564
## date17/05/2020	3.750e+03	2.425e+03	1.546
## date17/05/2021	-2.868e+03	1.336e+03	-2.146
## date17/06/2019	-4.721e+02	1.358e+03	-0.348
## date17/06/2020	1.215e+03	1.388e+03	0.876
## date17/06/2021	-1.607e+03	1.363e+03	-1.179
## date17/07/2019	-1.012e+03	1.376e+03	-0.735
## date17/07/2020	3.262e+03	1.511e+03	2.158
## date17/07/2021	-9.619e+02	1.658e+03	-0.580
## date17/08/2019	-3.466e+02	1.563e+03	-0.222
## date17/08/2020	2.652e+02	1.338e+03	0.198
## date17/08/2021	-1.600e+03	1.399e+03	-1.143
## date17/09/2019	-2.928e+02	1.376e+03	-0.213
## date17/09/2020	-9.380e+02	1.344e+03	-0.698
## date17/09/2021	-1.471e+03	1.356e+03	-1.084
## date17/10/2019	-2.265e+02	1.327e+03	-0.171
## date17/10/2020	-4.130e+03	1.540e+03	-2.683
## date17/10/2021	-1.534e+03	1.388e+03	-1.105
## date17/11/2019	5.712e+02	1.436e+03	0.398
## date17/11/2020	-3.218e+03	1.386e+03	-2.321
## date17/11/2021	-1.119e+03	1.290e+03	-0.868
## date17/12/2019	2.853e+03	1.312e+03	2.174
## date17/12/2020	-3.434e+03	1.716e+03	-2.001
## date17/12/2021	-1.073e+03	1.331e+03	-0.806
## date18/01/2020	5.979e+02	1.390e+03	0.430
## date18/01/2021	-3.297e+03	1.386e+03	-2.379
## date18/01/2022	-5.754e+02	1.275e+03	-0.451
## date18/02/2020	3.119e+03	1.355e+03	2.302
## date18/02/2021	-2.939e+03	1.374e+03	-2.139
## date18/02/2022	-6.394e+02	1.317e+03	-0.485
## date18/03/2020	5.429e+03	2.151e+03	2.524
## date18/03/2021	-2.608e+03	1.374e+03	-1.898
## date18/03/2022	-1.090e+03	1.348e+03	-0.808
## date18/04/2019	4.542e+02	2.817e+03	0.161
## date18/04/2021	1.100e+03	1.465e+03	0.751
## date18/04/2022	-3.255e+02	1.339e+03	-0.243
## date18/05/2019	-4.176e+02	1.505e+03	-0.278
## date18/05/2020	1.832e+03	2.856e+03	0.641
## date18/05/2021	-2.532e+03	1.323e+03	-1.914

## date18/06/2019	-5.224e+02	1.336e+03	-0.391
## date18/06/2020	1.326e+03	1.513e+03	0.876
## date18/06/2021	-1.776e+03	1.323e+03	-1.343
## date18/07/2019	2.815e+01	1.327e+03	0.021
## date18/07/2020	1.497e+03	1.429e+03	1.047
## date18/07/2021	-1.215e+03	1.388e+03	-0.876
## date18/08/2019	-1.569e+02	1.563e+03	-0.100
## date18/08/2020	4.960e+02	1.374e+03	0.361
## date18/08/2021	-2.543e+03	1.345e+03	-1.891
## date18/09/2019	-1.411e+02	1.344e+03	-0.105
## date18/09/2020	-2.045e+03	1.611e+03	-1.269
## date18/09/2021	-1.178e+03	1.356e+03	-0.869
## date18/10/2019	-7.215e+02	1.503e+03	-0.480
## date18/10/2020	-4.243e+03	1.487e+03	-2.854
## date18/10/2021	-1.174e+03	1.289e+03	-0.911
## date18/11/2019	-3.869e+02	1.277e+03	-0.303
## date18/11/2020	-3.744e+03	1.354e+03	-2.764
## date18/11/2021	-1.510e+03	1.300e+03	-1.161
## date18/12/2019	1.435e+03	1.282e+03	1.119
## date18/12/2020	-3.993e+03	1.430e+03	-2.793
## date18/12/2021	-1.107e+03	1.489e+03	-0.743
## date19/01/2020	5.316e+01	1.563e+03	0.034
## date19/01/2021	-3.241e+03	1.375e+03	-2.358
## date19/01/2022	-1.575e+03	1.255e+03	-1.255
## date19/02/2020	8.618e+03	1.273e+03	6.770
## date19/02/2021	-3.938e+03	1.540e+03	-2.557
## date19/02/2022	-6.736e+02	1.416e+03	-0.476
## date19/03/2019	-2.995e+04	2.896e+03	-10.341
## date19/03/2020	4.419e+03	1.715e+03	2.578
## date19/03/2021	-8.413e+02	1.486e+03	-0.566
## date19/03/2022	-1.293e+03	1.395e+03	-0.927
## date19/04/2019	-1.639e+03	1.457e+03	-1.125
## date19/04/2020	6.549e+02	3.830e+03	0.171
## date19/04/2021	-2.741e+03	1.354e+03	-2.025
## date19/04/2022	-7.451e+02	1.294e+03	-0.576
## date19/05/2019	-5.022e+02	1.456e+03	-0.345
## date19/05/2020	2.441e+03	1.725e+03	1.415
## date19/05/2021	-2.061e+03	1.374e+03	-1.499
## date19/06/2019	-2.380e+02	1.389e+03	-0.171
## date19/06/2020	2.797e+03	1.572e+03	1.780
## date19/07/2019	2.156e+02	1.438e+03	0.150
## date19/07/2020	1.613e+03	1.511e+03	1.067
## date19/07/2021	-1.117e+03	1.330e+03	-0.840
## date19/08/2019	-1.156e+03	1.376e+03	-0.840
## date19/08/2020	2.747e+02	1.387e+03	0.198
## date19/08/2021	-1.669e+03	1.445e+03	-1.155
## date19/09/2019	-3.525e+02	1.268e+03	-0.278
## date19/09/2020	-7.742e+02	1.511e+03	-0.513
## date19/09/2021	-1.438e+03	1.447e+03	-0.993
## date19/10/2019	-2.128e+01	1.455e+03	-0.015
## date19/10/2020	-2.553e+03	1.413e+03	-1.807
## date19/10/2021	-1.433e+03	1.288e+03	-1.112
## date19/11/2019	-3.123e+01	1.366e+03	-0.023
## date19/11/2020	-4.429e+03	1.387e+03	-3.194

## date19/11/2021	-1.174e+03	1.311e+03	-0.895
## date19/12/2019	8.106e+02	1.273e+03	0.637
## date19/12/2020	-2.871e+03	1.512e+03	-1.898
## date19/12/2021	-1.347e+03	1.431e+03	-0.941
## date20/01/2020	-6.523e+01	1.404e+03	-0.046
## date20/01/2021	-4.950e+03	1.429e+03	-3.464
## date20/01/2022	-1.456e+03	1.293e+03	-1.126
## date20/02/2020	2.141e+02	1.264e+03	0.169
## date20/02/2021	-2.728e+03	1.513e+03	-1.803
## date20/02/2022	-1.152e+03	1.468e+03	-0.785
## date20/03/2020	1.311e+03	1.712e+03	0.766
## date20/03/2021	-1.974e+03	1.612e+03	-1.225
## date20/04/2019	-1.682e+02	1.773e+03	-0.095
## date20/04/2020	4.558e+03	2.824e+03	1.614
## date20/04/2021	-2.183e+03	1.288e+03	-1.695
## date20/04/2022	-1.433e+03	1.300e+03	-1.102
## date20/05/2019	1.419e+02	1.419e+03	0.100
## date20/05/2020	2.864e+03	2.011e+03	1.424
## date20/05/2021	-1.769e+03	1.321e+03	-1.339
## date20/06/2019	-6.536e+02	1.365e+03	-0.479
## date20/06/2020	6.051e+02	1.401e+03	0.432
## date20/06/2021	-1.907e+03	1.489e+03	-1.281
## date20/07/2019	2.129e+01	1.436e+03	0.015
## date20/07/2020	1.597e+03	1.322e+03	1.208
## date20/07/2021	-1.098e+03	1.385e+03	-0.793
## date20/08/2019	-5.715e+02	1.391e+03	-0.411
## date20/08/2020	-6.474e+01	1.400e+03	-0.046
## date20/08/2021	-1.964e+03	1.400e+03	-1.403
## date20/09/2018	2.492e+03	2.412e+03	1.033
## date20/09/2019	-5.837e+02	1.419e+03	-0.411
## date20/09/2020	-1.450e+02	1.414e+03	-0.103
## date20/09/2021	6.980e+01	1.294e+03	0.054
## date20/10/2019	-1.903e+02	1.564e+03	-0.122
## date20/10/2020	-3.063e+03	1.399e+03	-2.190
## date20/10/2021	-1.421e+03	1.276e+03	-1.114
## date20/11/2019	1.172e+02	1.305e+03	0.090
## date20/11/2020	-2.729e+03	1.465e+03	-1.863
## date20/11/2021	-7.337e+02	1.431e+03	-0.513
## date20/12/2019	8.645e+02	1.293e+03	0.669
## date20/12/2020	-2.502e+03	1.465e+03	-1.708
## date20/12/2021	-1.472e+03	1.255e+03	-1.173
## date21/01/2020	1.904e+03	1.305e+03	1.459
## date21/01/2021	-3.834e+03	1.374e+03	-2.790
## date21/01/2022	-9.400e+02	1.317e+03	-0.714
## date21/02/2020	4.843e+02	1.354e+03	0.358
## date21/02/2021	-3.644e+03	1.488e+03	-2.448
## date21/02/2022	-1.241e+03	1.312e+03	-0.946
## date21/03/2020	-9.934e+02	1.659e+03	-0.599
## date21/03/2021	-2.202e+03	1.611e+03	-1.367
## date21/03/2022	-2.097e+03	2.828e+03	-0.741
## date21/04/2019	-2.884e+02	1.647e+03	-0.175
## date21/04/2020	1.618e+04	3.836e+03	4.218
## date21/04/2021	-1.988e+03	1.413e+03	-1.407
## date21/04/2022	-7.775e+02	1.293e+03	-0.601

## date21/05/2019	-3.406e+02	1.389e+03	-0.245
## date21/05/2020	2.155e+03	2.854e+03	0.755
## date21/05/2021	-7.156e+02	1.365e+03	-0.524
## date21/06/2019	-5.372e+02	1.403e+03	-0.383
## date21/06/2020	2.466e+03	1.657e+03	1.488
## date21/06/2021	-2.169e+03	1.336e+03	-1.623
## date21/07/2019	-3.551e+02	1.648e+03	-0.215
## date21/07/2020	1.791e+03	1.363e+03	1.315
## date21/07/2021	-1.331e+03	1.308e+03	-1.017
## date21/08/2019	1.079e+02	1.376e+03	0.078
## date21/08/2020	2.537e+01	1.465e+03	0.017
## date21/08/2021	-1.371e+03	1.400e+03	-0.979
## date21/09/2019	3.924e+02	1.455e+03	0.270
## date21/09/2020	-2.011e+03	1.303e+03	-1.543
## date21/09/2021	-1.756e+03	1.289e+03	-1.362
## date21/10/2019	-8.371e+01	1.319e+03	-0.063
## date21/10/2020	-4.028e+03	1.353e+03	-2.976
## date21/10/2021	-1.040e+03	1.276e+03	-0.815
## date21/11/2019	2.117e+03	1.272e+03	1.664
## date21/11/2020	-3.127e+03	1.430e+03	-2.187
## date21/11/2021	-1.647e+03	1.431e+03	-1.151
## date21/12/2019	2.464e+03	1.531e+03	1.610
## date21/12/2020	-4.934e+03	1.316e+03	-3.749
## date21/12/2021	-6.981e+02	1.355e+03	-0.515
## date22/01/2020	-1.827e+02	1.305e+03	-0.140
## date22/01/2021	-4.254e+03	1.466e+03	-2.902
## date22/01/2022	-1.328e+03	1.468e+03	-0.905
## date22/02/2020	2.760e+03	1.477e+03	1.868
## date22/02/2021	-2.977e+03	1.338e+03	-2.225
## date22/02/2022	-1.477e+03	1.306e+03	-1.131
## date22/03/2020	-1.454e+03	1.713e+03	-0.849
## date22/03/2021	-2.676e+03	1.399e+03	-1.913
## date22/03/2022	-6.359e+02	2.396e+03	-0.265
## date22/04/2019	-1.627e+03	1.404e+03	-1.159
## date22/04/2020	2.232e+03	2.154e+03	1.036
## date22/04/2021	-2.247e+03	1.345e+03	-1.670
## date22/04/2022	-8.017e+02	1.339e+03	-0.599
## date22/05/2019	-1.060e+03	1.389e+03	-0.764
## date22/05/2020	-4.184e+02	1.790e+03	-0.234
## date22/05/2021	-1.174e+03	1.467e+03	-0.800
## date22/06/2019	3.913e+02	1.647e+03	0.238
## date22/06/2020	5.272e+02	1.357e+03	0.388
## date22/06/2021	-1.032e+03	1.374e+03	-0.751
## date22/07/2019	-7.720e+02	1.344e+03	-0.574
## date22/07/2020	-8.250e+02	1.414e+03	-0.584
## date22/07/2021	-1.606e+03	1.346e+03	-1.194
## date22/08/2019	-1.730e+03	1.292e+03	-1.339
## date22/08/2020	3.405e+02	1.465e+03	0.232
## date22/08/2021	-2.039e+03	1.612e+03	-1.265
## date22/09/2019	-6.340e+02	1.389e+03	-0.456
## date22/09/2020	-1.353e+03	1.366e+03	-0.991
## date22/09/2021	-9.951e+02	1.356e+03	-0.734
## date22/10/2019	-8.649e+02	1.336e+03	-0.648
## date22/10/2020	-2.882e+03	1.375e+03	-2.096

## date22/10/2021	-1.236e+03	1.324e+03	-0.933
## date22/11/2018	2.590e+03	3.841e+03	0.674
## date22/11/2019	3.234e+02	1.312e+03	0.246
## date22/11/2020	-3.851e+03	1.572e+03	-2.449
## date22/11/2021	-1.307e+03	1.301e+03	-1.005
## date22/12/2019	9.725e+02	1.563e+03	0.622
## date22/12/2020	-2.077e+03	1.428e+03	-1.454
## date22/12/2021	-5.229e+02	1.492e+03	-0.350
## date23/01/2020	4.433e+02	1.294e+03	0.343
## date23/01/2021	-3.799e+03	1.574e+03	-2.415
## date23/01/2022	-1.291e+03	1.467e+03	-0.880
## date23/02/2020	2.606e+03	1.364e+03	1.910
## date23/02/2021	-2.305e+03	1.345e+03	-1.714
## date23/02/2022	-1.004e+03	1.289e+03	-0.779
## date23/03/2020	2.795e+03	1.712e+03	1.633
## date23/03/2021	-1.888e+03	1.412e+03	-1.337
## date23/03/2022	-9.467e+02	1.272e+03	-0.744
## date23/04/2019	-6.667e+02	1.355e+03	-0.492
## date23/04/2020	4.269e+03	2.169e+03	1.968
## date23/04/2021	-2.010e+03	1.366e+03	-1.471
## date23/04/2022	-3.866e+02	1.469e+03	-0.263
## date23/05/2019	-1.469e+02	1.377e+03	-0.107
## date23/05/2020	2.692e+03	2.426e+03	1.110
## date23/05/2021	-1.562e+03	1.512e+03	-1.033
## date23/06/2019	-7.740e+02	1.602e+03	-0.483
## date23/06/2020	2.279e+03	1.511e+03	1.509
## date23/06/2021	-1.626e+03	1.287e+03	-1.263
## date23/07/2019	-7.790e+02	1.335e+03	-0.583
## date23/07/2020	3.047e+03	1.414e+03	2.155
## date23/07/2021	-1.545e+03	1.339e+03	-1.154
## date23/08/2019	-6.049e+02	1.403e+03	-0.431
## date23/08/2020	8.528e+02	1.414e+03	0.603
## date23/08/2021	-1.148e+03	1.386e+03	-0.828
## date23/09/2019	-3.641e+02	1.319e+03	-0.276
## date23/09/2020	-1.777e+03	1.337e+03	-1.330
## date23/09/2021	-1.220e+03	1.338e+03	-0.912
## date23/10/2019	-1.131e+02	1.298e+03	-0.087
## date23/10/2020	-4.357e+03	1.486e+03	-2.932
## date23/10/2021	-1.328e+03	1.379e+03	-0.963
## date23/11/2018	1.302e+03	3.842e+03	0.339
## date23/11/2019	8.721e+02	1.530e+03	0.570
## date23/11/2020	-3.464e+03	1.337e+03	-2.591
## date23/11/2021	-6.024e+02	1.261e+03	-0.478
## date23/12/2019	2.064e+02	1.318e+03	0.157
## date23/12/2020	-6.286e+03	1.399e+03	-4.492
## date23/12/2021	-1.454e+03	1.448e+03	-1.004
## date24/01/2020	6.179e+02	1.293e+03	0.478
## date24/01/2021	-3.354e+03	1.539e+03	-2.179
## date24/01/2022	-9.405e+02	1.356e+03	-0.694
## date24/02/2020	1.043e+02	1.327e+03	0.079
## date24/02/2021	-3.035e+03	1.466e+03	-2.071
## date24/02/2022	-9.010e+02	1.311e+03	-0.687
## date24/03/2020	-6.478e+02	1.657e+03	-0.391
## date24/03/2021	-3.407e+03	1.399e+03	-2.434

## date24/03/2022	-9.076e+02	1.299e+03	-0.699
## date24/04/2019	-7.058e+02	1.377e+03	-0.513
## date24/04/2020	2.863e+03	2.158e+03	1.327
## date24/04/2021	-1.744e+03	1.540e+03	-1.132
## date24/04/2022	-2.934e+02	1.380e+03	-0.213
## date24/05/2019	-8.349e+02	1.456e+03	-0.574
## date24/05/2020	3.403e+03	2.853e+03	1.193
## date24/05/2021	-2.241e+03	1.296e+03	-1.729
## date24/06/2019	-4.814e+02	1.403e+03	-0.343
## date24/06/2020	7.137e+03	1.468e+03	4.863
## date24/06/2021	-1.835e+03	1.385e+03	-1.325
## date24/07/2019	-2.046e+02	1.389e+03	-0.147
## date24/07/2020	-1.770e+02	1.540e+03	-0.115
## date24/07/2021	-1.016e+03	1.415e+03	-0.718
## date24/08/2019	-2.241e+02	1.648e+03	-0.136
## date24/08/2020	5.331e+02	1.386e+03	0.385
## date24/08/2021	-1.793e+03	1.337e+03	-1.341
## date24/09/2019	-1.651e+02	1.327e+03	-0.124
## date24/09/2020	-1.633e+03	1.345e+03	-1.213
## date24/09/2021	-1.148e+03	1.339e+03	-0.857
## date24/10/2019	3.711e+02	1.306e+03	0.284
## date24/10/2020	-3.445e+03	1.446e+03	-2.382
## date24/10/2021	-1.340e+03	1.390e+03	-0.964
## date24/11/2019	1.849e+02	1.376e+03	0.134
## date24/11/2020	-3.487e+03	1.413e+03	-2.467
## date24/11/2021	-1.333e+03	1.311e+03	-1.017
## date24/12/2019	5.300e+02	1.389e+03	0.381
## date24/12/2020	-4.864e+03	1.713e+03	-2.840
## date24/12/2021	-6.622e+02	2.400e+03	-0.276
## date25/01/2020	8.614e+02	1.704e+03	0.506
## date25/01/2021	-3.917e+03	1.386e+03	-2.825
## date25/01/2022	-6.475e+02	1.279e+03	-0.506
## date25/02/2020	5.748e+02	1.312e+03	0.438
## date25/02/2021	-3.239e+03	1.428e+03	-2.269
## date25/02/2022	-1.243e+03	1.324e+03	-0.939
## date25/03/2020	3.289e+02	1.711e+03	0.192
## date25/03/2021	-2.944e+03	1.486e+03	-1.981
## date25/03/2022	-1.006e+03	1.331e+03	-0.756
## date25/04/2019	-6.580e+02	1.376e+03	-0.478
## date25/04/2020	-1.737e+02	2.165e+03	-0.080
## date25/04/2021	-1.592e+03	1.540e+03	-1.033
## date25/04/2022	-1.218e+03	1.285e+03	-0.948
## date25/05/2019	5.080e+02	1.653e+03	0.307
## date25/05/2020	-7.095e+02	1.994e+03	-0.356
## date25/05/2021	8.417e+02	1.303e+03	0.646
## date25/06/2019	-8.823e+02	1.345e+03	-0.656
## date25/06/2020	1.478e+01	1.490e+03	0.010
## date25/06/2021	-1.586e+03	1.447e+03	-1.096
## date25/07/2019	-1.665e+03	1.282e+03	-1.299
## date25/07/2020	1.584e+03	1.428e+03	1.110
## date25/07/2021	-1.202e+03	1.447e+03	-0.831
## date25/08/2019	7.486e+02	1.563e+03	0.479
## date25/08/2020	7.648e+01	1.374e+03	0.056
## date25/08/2021	-9.811e+02	1.346e+03	-0.729

## date25/09/2019	-4.045e+02	1.304e+03	-0.310
## date25/09/2020	-1.537e+03	1.511e+03	-1.017
## date25/09/2021	-8.959e+02	1.339e+03	-0.669
## date25/10/2018	2.112e+03	3.841e+03	0.550
## date25/10/2019	6.640e+02	1.376e+03	0.482
## date25/10/2020	-3.839e+03	1.512e+03	-2.538
## date25/10/2021	-1.007e+03	1.305e+03	-0.772
## date25/11/2019	5.595e+02	1.354e+03	0.413
## date25/11/2020	-4.659e+03	1.413e+03	-3.296
## date25/11/2021	-1.446e+03	1.579e+03	-0.915
## date25/12/2020	-1.377e+04	1.996e+03	-6.899
## date25/12/2021	-2.401e+03	1.801e+03	-1.333
## date26/01/2020	2.741e+02	1.602e+03	0.171
## date26/01/2021	-1.405e+03	1.305e+03	-1.077
## date26/01/2022	-1.515e+03	1.289e+03	-1.175
## date26/02/2020	3.721e+02	1.312e+03	0.284
## date26/02/2021	-4.884e+03	1.446e+03	-3.379
## date26/02/2022	-9.845e+02	1.416e+03	-0.695
## date26/03/2020	4.287e+01	1.657e+03	0.026
## date26/03/2021	-2.476e+03	1.540e+03	-1.608
## date26/03/2022	-4.495e+02	1.614e+03	-0.278
## date26/04/2019	-6.073e+01	1.437e+03	-0.042
## date26/04/2020	6.384e+03	2.403e+03	2.657
## date26/04/2021	-2.318e+03	1.354e+03	-1.712
## date26/04/2022	-7.184e+02	1.290e+03	-0.557
## date26/05/2019	-1.785e+03	1.653e+03	-1.080
## date26/05/2020	3.001e+03	1.337e+03	2.245
## date26/05/2021	-2.123e+03	1.251e+03	-1.697
## date26/06/2019	-1.073e+03	1.404e+03	-0.764
## date26/06/2020	2.145e+03	1.574e+03	1.363
## date26/06/2021	-1.492e+03	1.414e+03	-1.056
## date26/07/2019	6.012e+01	1.377e+03	0.044
## date26/07/2020	-3.881e+02	1.657e+03	-0.234
## date26/07/2021	-1.619e+03	1.363e+03	-1.187
## date26/08/2019	-3.164e+02	1.327e+03	-0.239
## date26/08/2020	1.627e+02	1.399e+03	0.116
## date26/08/2021	-1.395e+03	1.398e+03	-0.998
## date26/09/2019	-8.520e+01	1.272e+03	-0.067
## date26/09/2020	-1.827e+03	1.486e+03	-1.229
## date26/09/2021	-1.362e+03	1.447e+03	-0.941
## date26/10/2019	2.667e+02	1.530e+03	0.174
## date26/10/2020	-4.870e+03	1.386e+03	-3.513
## date26/10/2021	-1.149e+03	1.275e+03	-0.901
## date26/11/2019	2.961e+02	1.312e+03	0.226
## date26/11/2020	-5.695e+03	1.657e+03	-3.436
## date26/11/2021	-3.757e+02	1.663e+03	-0.226
## date26/12/2019	-2.559e+02	1.336e+03	-0.192
## date26/12/2020	-6.217e+03	1.540e+03	-4.036
## date26/12/2021	-1.281e+03	1.988e+03	-0.644
## date27/01/2020	1.236e+02	1.335e+03	0.093
## date27/01/2021	-2.356e+03	1.323e+03	-1.780
## date27/01/2022	-5.349e+02	1.317e+03	-0.406
## date27/02/2020	3.114e+02	1.260e+03	0.247
## date27/02/2021	-4.782e+03	1.551e+03	-3.083

## date27/02/2022	-7.892e+02	1.449e+03	-0.545
## date27/03/2020	9.701e+02	1.572e+03	0.617
## date27/03/2021	-3.248e+03	1.783e+03	-1.822
## date27/03/2022	-1.133e+03	1.403e+03	-0.808
## date27/04/2019	-3.463e+02	1.455e+03	-0.238
## date27/04/2020	2.347e+03	1.894e+03	1.239
## date27/04/2021	9.116e+02	1.385e+03	0.658
## date27/04/2022	-1.560e+03	1.289e+03	-1.210
## date27/05/2019	-3.850e+03	1.609e+03	-2.393
## date27/05/2020	6.179e+02	1.388e+03	0.445
## date27/05/2021	-9.437e+02	1.445e+03	-0.653
## date27/06/2019	-1.265e+03	1.319e+03	-0.959
## date27/06/2020	1.062e+03	1.445e+03	0.735
## date27/06/2021	-1.880e+03	1.540e+03	-1.221
## date27/07/2019	1.692e+03	1.978e+03	0.856
## date27/07/2020	7.503e+02	1.353e+03	0.554
## date27/07/2021	-1.542e+03	1.427e+03	-1.081
## date27/08/2019	-2.169e+02	1.312e+03	-0.165
## date27/08/2020	9.819e+02	1.428e+03	0.688
## date27/08/2021	-1.499e+03	1.413e+03	-1.061
## date27/09/2019	-1.968e+02	1.478e+03	-0.133
## date27/09/2020	-2.227e+03	1.466e+03	-1.519
## date27/09/2021	-1.037e+03	1.323e+03	-0.784
## date27/10/2019	4.327e+01	1.436e+03	0.030
## date27/10/2020	-2.688e+03	1.275e+03	-2.108
## date27/10/2021	-1.523e+03	1.268e+03	-1.201
## date27/11/2019	7.026e+02	1.305e+03	0.538
## date27/11/2020	-6.594e+03	1.868e+03	-3.530
## date27/11/2021	-1.166e+03	1.431e+03	-0.814
## date27/12/2018	1.073e+03	3.841e+03	0.279
## date27/12/2019	8.453e+02	1.326e+03	0.637
## date27/12/2020	-1.035e+03	1.712e+03	-0.605
## date27/12/2021	-1.629e+03	1.324e+03	-1.230
## date28/01/2020	4.456e+02	1.288e+03	0.346
## date28/01/2021	-3.174e+03	1.323e+03	-2.399
## date28/01/2022	-1.379e+03	1.376e+03	-1.002
## date28/02/2019	2.110e+03	3.841e+03	0.549
## date28/02/2020	1.788e+03	1.312e+03	1.363
## date28/02/2021	-3.461e+03	1.430e+03	-2.420
## date28/02/2022	-1.314e+03	1.280e+03	-1.027
## date28/03/2019	3.330e+02	2.837e+03	0.117
## date28/03/2020	4.301e+03	1.711e+03	2.513
## date28/03/2021	-2.105e+03	1.488e+03	-1.414
## date28/03/2022	-1.091e+03	1.265e+03	-0.862
## date28/04/2019	-3.286e+02	1.530e+03	-0.215
## date28/04/2020	2.894e+02	1.796e+03	0.161
## date28/04/2021	-2.743e+03	1.345e+03	-2.039
## date28/04/2022	-1.871e+02	1.332e+03	-0.141
## date28/05/2019	-5.340e+02	1.299e+03	-0.411
## date28/05/2020	2.909e+03	1.513e+03	1.923
## date28/05/2021	-2.116e+03	1.387e+03	-1.525
## date28/06/2019	3.127e+02	1.378e+03	0.227
## date28/06/2020	1.338e+03	1.659e+03	0.806
## date28/06/2021	-1.925e+03	1.386e+03	-1.389

## date28/07/2019	4.462e+01	1.774e+03	0.025
## date28/07/2020	2.317e+02	1.261e+03	0.184
## date28/07/2021	-1.203e+03	1.283e+03	-0.938
## date28/08/2019	-4.215e+01	1.364e+03	-0.031
## date28/08/2020	-6.520e+02	1.658e+03	-0.393
## date28/08/2021	-6.475e+02	1.713e+03	-0.378
## date28/09/2019	3.770e+02	1.502e+03	0.251
## date28/09/2020	-3.224e+03	1.309e+03	-2.462
## date28/09/2021	-5.852e+02	1.317e+03	-0.444
## date28/10/2019	1.036e+02	1.326e+03	0.078
## date28/10/2020	-3.705e+03	1.446e+03	-2.562
## date28/10/2021	-1.245e+03	1.289e+03	-0.966
## date28/11/2019	4.203e+02	1.460e+03	0.288
## date28/11/2020	-4.959e+03	2.145e+03	-2.312
## date28/11/2021	-8.369e+02	1.388e+03	-0.603
## date28/12/2019	4.877e+02	1.404e+03	0.347
## date28/12/2020	-2.246e+03	1.354e+03	-1.658
## date28/12/2021	-1.905e+03	1.356e+03	-1.405
## date29/01/2020	3.337e+02	1.299e+03	0.257
## date29/01/2021	-4.205e+03	1.539e+03	-2.732
## date29/01/2022	-8.720e+02	1.416e+03	-0.616
## date29/02/2020	1.961e+03	1.773e+03	1.106
## date29/03/2020	3.288e+03	1.610e+03	2.042
## date29/03/2021	-2.822e+03	1.374e+03	-2.054
## date29/03/2022	-6.706e+02	1.294e+03	-0.518
## date29/04/2019	-5.681e+02	1.319e+03	-0.431
## date29/04/2020	-4.420e+02	1.882e+03	-0.235
## date29/04/2021	-1.181e+03	1.303e+03	-0.907
## date29/04/2022	-9.652e+02	1.361e+03	-0.709
## date29/05/2019	-3.637e+02	1.503e+03	-0.242
## date29/05/2020	1.584e+03	1.401e+03	1.131
## date29/05/2021	-1.453e+03	1.572e+03	-0.924
## date29/06/2019	-2.258e+02	1.602e+03	-0.141
## date29/06/2020	3.361e+03	1.346e+03	2.496
## date29/06/2021	-1.569e+03	1.374e+03	-1.143
## date29/07/2019	-1.006e+03	1.403e+03	-0.717
## date29/07/2020	8.942e+02	1.346e+03	0.664
## date29/07/2021	-1.301e+03	1.374e+03	-0.947
## date29/08/2019	1.164e+02	1.355e+03	0.086
## date29/08/2020	9.321e+02	1.399e+03	0.666
## date29/08/2021	-1.315e+03	1.446e+03	-0.910
## date29/09/2019	4.651e+02	1.501e+03	0.310
## date29/09/2020	-2.859e+03	1.337e+03	-2.138
## date29/09/2021	-8.623e+02	1.340e+03	-0.644
## date29/10/2019	1.148e+02	1.312e+03	0.087
## date29/10/2020	-3.562e+03	1.346e+03	-2.647
## date29/10/2021	-1.264e+03	1.366e+03	-0.926
## date29/11/2018	-1.292e+03	3.829e+03	-0.337
## date29/11/2019	-8.094e+02	1.602e+03	-0.505
## date29/11/2020	-3.794e+03	1.465e+03	-2.590
## date29/11/2021	-4.811e+02	1.324e+03	-0.363
## date29/12/2019	7.713e+02	1.530e+03	0.504
## date29/12/2020	-4.973e+03	1.428e+03	-3.483
## date29/12/2021	-1.557e+03	1.290e+03	-1.207

## date30/01/2020	5.523e+02	1.242e+03	0.445
## date30/01/2021	-4.092e+03	1.466e+03	-2.791
## date30/01/2022	-2.258e+03	1.390e+03	-1.624
## date30/03/2020	9.191e+03	1.544e+03	5.953
## date30/03/2021	-3.185e+02	1.399e+03	-0.228
## date30/03/2022	-1.073e+03	1.279e+03	-0.839
## date30/04/2019	-3.870e+03	1.380e+03	-2.804
## date30/04/2020	3.168e+03	1.790e+03	1.769
## date30/04/2021	-1.124e+03	1.375e+03	-0.817
## date30/04/2022	-5.299e+02	1.461e+03	-0.363
## date30/05/2019	-5.975e+02	1.345e+03	-0.444
## date30/05/2020	3.425e+03	1.401e+03	2.445
## date30/05/2021	-1.980e+03	1.447e+03	-1.369
## date30/06/2019	1.774e+02	1.648e+03	0.108
## date30/06/2020	2.319e+03	1.379e+03	1.681
## date30/06/2021	-1.196e+03	1.446e+03	-0.827
## date30/07/2019	-7.980e+02	1.389e+03	-0.574
## date30/07/2020	-4.556e+02	1.386e+03	-0.329
## date30/07/2021	-1.643e+03	1.400e+03	-1.174
## date30/08/2019	-2.162e+02	1.477e+03	-0.146
## date30/08/2020	-3.316e+01	1.487e+03	-0.022
## date30/08/2021	-1.597e+02	1.428e+03	-0.112
## date30/09/2019	-9.901e+02	1.267e+03	-0.781
## date30/09/2020	-2.959e+03	1.309e+03	-2.261
## date30/09/2021	-8.597e+02	1.284e+03	-0.670
## date30/10/2019	-4.726e+02	1.344e+03	-0.352
## date30/10/2020	-5.277e+03	1.511e+03	-3.493
## date30/10/2021	-7.040e+02	1.431e+03	-0.492
## date30/11/2019	7.700e+02	1.477e+03	0.521
## date30/11/2020	-3.752e+03	1.429e+03	-2.625
## date30/11/2021	-1.319e+03	1.281e+03	-1.030
## date30/12/2019	-3.358e+02	1.335e+03	-0.252
## date30/12/2020	-5.938e+03	1.389e+03	-4.275
## date30/12/2021	-2.180e+03	1.300e+03	-1.677
## date31/01/2019	2.410e+03	2.411e+03	1.000
## date31/01/2020	2.054e+02	1.305e+03	0.157
## date31/01/2021	-5.038e+03	1.611e+03	-3.127
## date31/01/2022	-1.412e+03	1.266e+03	-1.115
## date31/03/2020	-1.406e+02	1.574e+03	-0.089
## date31/03/2021	-2.408e+03	1.391e+03	-1.731
## date31/03/2022	-7.515e+02	1.377e+03	-0.546
## date31/05/2019	-1.669e+03	1.312e+03	-1.272
## date31/05/2020	2.424e+03	1.466e+03	1.653
## date31/05/2021	-1.950e+03	3.916e+03	-0.498
## date31/07/2019	6.923e+01	1.364e+03	0.051
## date31/07/2020	2.438e+03	1.446e+03	1.686
## date31/07/2021	-1.401e+03	1.512e+03	-0.926
## date31/08/2019	-1.323e+02	1.862e+03	-0.071
## date31/08/2020	9.809e+02	1.386e+03	0.708
## date31/08/2021	-1.416e+03	1.365e+03	-1.037
## date31/10/2019	-1.066e+03	1.299e+03	-0.821
## date31/10/2020	-4.368e+03	1.445e+03	-3.022
## date31/10/2021	-1.215e+03	1.433e+03	-0.848
## date31/12/2019	-1.038e+02	1.457e+03	-0.071

## date31/12/2020	-7.674e+03	1.612e+03	-4.762
## date31/12/2021	-1.587e+03	2.156e+03	-0.736
## day_time_hour00	3.698e+02	3.619e+02	1.022
## day_time_hour01	2.688e+02	4.858e+02	0.553
## day_time_hour02	1.087e+03	9.568e+02	1.136
## day_time_hour03	-2.119e+02	2.213e+03	-0.096
## day_time_hour04	1.368e+03	6.881e+02	1.988
## day_time_hour05	6.661e+02	4.453e+02	1.496
## day_time_hour06	6.532e+02	3.736e+02	1.748
## day_time_hour07	5.467e+02	3.876e+02	1.410
## day_time_hour08	9.333e+02	4.088e+02	2.283
## day_time_hour09	8.320e+02	3.541e+02	2.349
## day_time_hour1	-7.626e+02	5.319e+02	-1.434
## day_time_hour10	8.175e+02	3.000e+02	2.725
## day_time_hour11	1.035e+03	2.920e+02	3.545
## day_time_hour12	8.865e+02	2.880e+02	3.078
## day_time_hour13	8.888e+02	2.880e+02	3.087
## day_time_hour14	9.995e+02	2.842e+02	3.517
## day_time_hour15	8.635e+02	2.860e+02	3.020
## day_time_hour16	5.009e+02	2.910e+02	1.721
## day_time_hour17	6.337e+02	3.053e+02	2.075
## day_time_hour18	5.639e+02	3.121e+02	1.807
## day_time_hour19	6.043e+02	3.475e+02	1.739
## day_time_hour2	1.318e+02	1.215e+03	0.108
## day_time_hour20	5.403e+02	3.175e+02	1.702
## day_time_hour21	9.723e+02	2.965e+02	3.280
## day_time_hour22	8.883e+02	2.963e+02	2.998
## day_time_hour23	5.702e+02	2.995e+02	1.904
## day_time_hour3	9.022e+02	1.176e+03	0.767
## day_time_hour4	1.305e+03	7.619e+02	1.713
## day_time_hour5	5.814e+02	4.845e+02	1.200
## day_time_hour6	6.866e+02	3.963e+02	1.732
## day_time_hour7	4.418e+02	4.235e+02	1.043
## day_time_hour8	9.426e+02	4.572e+02	2.062
## day_time_hour9	5.594e+02	3.957e+02	1.414
## year	NA	NA	NA
##	Pr(> t)		
## (Intercept)	0.981065		
## content_formatvideo	< 2e-16 ***		
## difficulty_estimate	< 2e-16 ***		
## overall_estimate	0.011207 *		
## difficulty_rating_avg	NA		
## difficulty_rating_count	< 2e-16 ***		
## duration_minutes	< 2e-16 ***		
## explicit_rating	0.899467		
## fitness_discipline_display_nameCardio	0.383876		
## fitness_discipline_display_nameCycling	1.44e-08 ***		
## fitness_discipline_display_nameMeditation	< 2e-16 ***		
## fitness_discipline_display_nameRunning	< 2e-16 ***		
## fitness_discipline_display_nameStrength	0.003033 **		
## fitness_discipline_display_nameStretching	< 2e-16 ***		
## fitness_discipline_display_nameTread Bootcamp	< 2e-16 ***		
## fitness_discipline_display_nameWalking	< 2e-16 ***		
## fitness_discipline_display_nameYoga	4.48e-08 ***		

## has_closed_captions	TRUE	0.789178
## has_pedaling_metrics	TRUE	NA
## length_minutes		< 2e-16 ***
## locationevent-01		0.013513 *
## locationnyc		< 2e-16 ***
## locationnyc_audiobooth		< 2e-16 ***
## locationnyc-gw-tread		1.12e-07 ***
## locationnyc-int-flex		0.000986 ***
## locationpsl-studio-1		0.001910 **
## locationpsl-studio-2		0.044645 *
## locationpsl-studio-3		0.007925 **
## locationpsny-studio-1		< 2e-16 ***
## locationpsny-studio-2		< 2e-16 ***
## locationpsny-studio-3		< 2e-16 ***
## locationpsny-studio-4		8.44e-11 ***
## locationtread-remote-broadcast		0.136596
## locationuk		0.001590 **
## locationuk-bike-remote-broadcast		0.002882 **
## locationuk-strength		0.006944 **
## locationus-bike-remote-broadcast		< 2e-16 ***
## locationyoga-remote-broadcast		3.67e-07 ***
## overall_rating_avg		NA
## instructor_name	Aditi Shah	0.717870
## instructor_name	Adrian & Callie	0.795527
## instructor_name	Adrian & Jess	0.896530
## instructor_name	Adrian & Tunde	0.996373
## instructor_name	Adrian Williams	0.898713
## instructor_name	Alex & Jenn	0.591034
## instructor_name	Alex & Tunde	0.030894 *
## instructor_name	Alex Toussaint	0.911915
## instructor_name	Ally & Emma	0.592455
## instructor_name	Ally & Hannah	0.819982
## instructor_name	Ally Love	0.871872
## instructor_name	Andy Speer	0.833756
## instructor_name	Anna Greenberg	0.831143
## instructor_name	Becs & Tunde	0.651572
## instructor_name	Becs Gentry	0.828351
## instructor_name	Ben Alldis	0.974135
## instructor_name	Benny Adami	0.792762
## instructor_name	Bradley Rose	0.981966
## instructor_name	Callie & Hannah	0.699442
## instructor_name	Callie & Jess	0.721504
## instructor_name	Callie Gullickson	0.976490
## instructor_name	Camila Ramón	0.332925
## instructor_name	Charlotte Weidenbach	0.598954
## instructor_name	Chase & Jess	0.643662
## instructor_name	Chase Tucker	0.830300
## instructor_name	Chelsea & Denis	0.900629
## instructor_name	Chelsea Jackson Roberts	0.817699
## instructor_name	Christian Vande Velde	0.331098
## instructor_name	Christine D'Ercole	0.772863
## instructor_name	Cliff & Hannah	0.931335
## instructor_name	Cliff Dwenger	0.501227
## instructor_name	Cody & Emma	0.312828

## instructor_nameCody & Jess	0.738248
## instructor_nameCody Rigsby	0.862281
## instructor_nameDaniel McKenna	0.905035
## instructor_nameDenis & Matt	0.466066
## instructor_nameDenis Morton	0.984915
## instructor_nameEmma Lovewell	0.983311
## instructor_nameErik Jäger	0.682428
## instructor_nameHannah & Leanne	0.783203
## instructor_nameHannah Corbin	0.826128
## instructor_nameHannah Frankson	0.920117
## instructor_nameIrène Scholz	0.689765
## instructor_nameJeffrey McEachern	0.592529
## instructor_nameJenn Sherman	0.845369
## instructor_nameJermaine Johnson	0.555697
## instructor_nameJess King	0.860314
## instructor_nameJess Sims	0.974975
## instructor_nameJon Hosking	0.446257
## instructor_nameJoslyn & Susie	0.622990
## instructor_nameJoslyn Thompson Rule	0.469650
## instructor_nameKendall Toole	0.569609
## instructor_nameKirra Michel	0.788576
## instructor_nameKirsten & Robin	0.987652
## instructor_nameKirsten & Tunde	0.586360
## instructor_nameKirsten Ferguson	0.848225
## instructor_nameKristin & Ross	0.989178
## instructor_nameKristin McGee	0.690562
## instructor_nameLeanne Hainsby	0.910765
## instructor_nameMarcel & Tunde	0.678596
## instructor_nameMarcel Dinkins	0.831750
## instructor_nameMarcel Maurer	0.991132
## instructor_nameMariana Fernández	0.412865
## instructor_nameMarina Andresen	0.676128
## instructor_nameMatt & Tunde	0.655771
## instructor_nameMatt Wilpers	0.925392
## instructor_nameMatty & Tunde	0.515699
## instructor_nameMatty Maggiacomo	0.829446
## instructor_nameMayla Wedekind	0.582809
## instructor_nameMila Lazar	0.913961
## instructor_nameMultiple Instructors	0.729942
## instructor_nameNico & Ross	0.655983
## instructor_nameNico Sarani	0.709851
## instructor_nameOlivia & Tunde	0.784925
## instructor_nameOlivia Amato	0.931015
## instructor_nameRad Lopez	0.845499
## instructor_nameRebecca & Tunde	0.566532
## instructor_nameRebecca Kennedy	0.850042
## instructor_nameRobin Arzón	0.937076
## instructor_nameRoss Rayburn	0.859149
## instructor_nameSam Yo	0.964433
## instructor_nameSelena Samuela	0.925221
## instructor_nameSusie Chan	0.502337
## instructor_nameTobias Heinze	NA
## instructor_nameTunde Oyeneyin	0.833162
## date01/01/2021	0.044997 *

## date01/01/2022	0.105735
## date01/02/2020	0.705679
## date01/02/2021	0.009961 **
## date01/02/2022	0.341285
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## date01/04/2021	0.046890 *
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## date01/12/2021	0.219319
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## date05/05/2020	0.454943
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## date05/12/2021	0.281531
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## date06/01/2022	0.345153
## date06/02/2020	0.777073
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## date06/06/2020	0.242749
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## date06/11/2021	0.930929
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## date06/12/2021	0.311291
## date07/01/2020	0.718581

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## date07/01/2022	0.383462
## date07/02/2020	0.618504
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## date22/02/2020	0.061713 .
## date22/02/2021	0.026090 *
## date22/02/2022	0.258086
## date22/03/2020	0.396138
## date22/03/2021	0.055802 .
## date22/03/2022	0.790667
## date22/04/2019	0.246478
## date22/04/2020	0.300180
## date22/04/2021	0.094885 .
## date22/04/2022	0.549381
## date22/05/2019	0.445076
## date22/05/2020	0.815215
## date22/05/2021	0.423584
## date22/06/2019	0.812223
## date22/06/2020	0.697756
## date22/06/2021	0.452769
## date22/07/2019	0.565736
## date22/07/2020	0.559534
## date22/07/2021	0.232556
## date22/08/2019	0.180681
## date22/08/2020	0.816157
## date22/08/2021	0.205757
## date22/09/2019	0.648190
## date22/09/2020	0.321917
## date22/09/2021	0.462948
## date22/10/2019	0.517259
## date22/10/2020	0.036070 *
## date22/10/2021	0.350742
## date22/11/2018	0.500176
## date22/11/2019	0.805309
## date22/11/2020	0.014316 *
## date22/11/2021	0.314836
## date22/12/2019	0.533813
## date22/12/2020	0.145931
## date22/12/2021	0.725971
## date23/01/2020	0.731806
## date23/01/2021	0.015762 *

## date23/01/2022	0.378746
## date23/02/2020	0.056129 .
## date23/02/2021	0.086625 .
## date23/02/2022	0.436155
## date23/03/2020	0.102582
## date23/03/2021	0.181125
## date23/03/2022	0.456767
## date23/04/2019	0.622581
## date23/04/2020	0.049128 *
## date23/04/2021	0.141275
## date23/04/2022	0.792414
## date23/05/2019	0.915048
## date23/05/2020	0.267185
## date23/05/2021	0.301414
## date23/06/2019	0.628920
## date23/06/2020	0.131419
## date23/06/2021	0.206471
## date23/07/2019	0.559580
## date23/07/2020	0.031160 *
## date23/07/2021	0.248388
## date23/08/2019	0.666346
## date23/08/2020	0.546324
## date23/08/2021	0.407838
## date23/09/2019	0.782553
## date23/09/2020	0.183633
## date23/09/2021	0.362040
## date23/10/2019	0.930585
## date23/10/2020	0.003367 **
## date23/10/2021	0.335336
## date23/11/2018	0.734603
## date23/11/2019	0.568787
## date23/11/2020	0.009580 **
## date23/11/2021	0.632810
## date23/12/2019	0.875582
## date23/12/2020	7.09e-06 ***
## date23/12/2021	0.315564
## date24/01/2020	0.632655
## date24/01/2021	0.029346 *
## date24/01/2022	0.487844
## date24/02/2020	0.937399
## date24/02/2021	0.038392 *
## date24/02/2022	0.492074
## date24/03/2020	0.695853
## date24/03/2021	0.014921 *
## date24/03/2022	0.484744
## date24/04/2019	0.608147
## date24/04/2020	0.184527
## date24/04/2021	0.257627
## date24/04/2022	0.831638
## date24/05/2019	0.566270
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## date24/05/2021	0.083878 .
## date24/06/2019	0.731459
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## date24/06/2021	0.185297
## date24/07/2019	0.882928
## date24/07/2020	0.908500
## date24/07/2021	0.472734
## date24/08/2019	0.891845
## date24/08/2020	0.700485
## date24/08/2021	0.180087
## date24/09/2019	0.900925
## date24/09/2020	0.224974
## date24/09/2021	0.391367
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## date24/10/2020	0.017212 *
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## date24/11/2019	0.893129
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## date24/12/2019	0.702856
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## date25/01/2022	0.612792
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## date25/03/2020	0.847594
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## date25/03/2022	0.449781
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## date25/09/2019	0.756477
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## date25/10/2021	0.440245
## date25/11/2019	0.679397
## date25/11/2020	0.000981 ***
## date25/11/2021	0.359946

## date25/12/2020	5.40e-12 ***
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## date26/01/2021	0.281672
## date26/01/2022	0.239935
## date26/02/2020	0.776650
## date26/02/2021	0.000729 ***
## date26/02/2022	0.486868
## date26/03/2020	0.979362
## date26/03/2021	0.107832
## date26/03/2022	0.780647
## date26/04/2019	0.966282
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## date26/06/2021	0.291206
## date26/07/2019	0.965179
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## date26/07/2021	0.235075
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## date26/09/2020	0.219019
## date26/09/2021	0.346748
## date26/10/2019	0.861636
## date26/10/2020	0.000445 ***
## date26/10/2021	0.367558
## date26/11/2019	0.821452
## date26/11/2020	0.000591 ***
## date26/11/2021	0.821294
## date26/12/2019	0.848107
## date26/12/2020	5.45e-05 ***
## date26/12/2021	0.519480
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## date27/03/2020	0.537274
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## date27/04/2019	0.811942
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## date27/05/2020	0.656145

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## date27/08/2021	0.288889
## date27/09/2019	0.894074
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## date27/11/2019	0.590284
## date27/11/2020	0.000417 ***
## date27/11/2021	0.415438
## date27/12/2018	0.780087
## date27/12/2019	0.523870
## date27/12/2020	0.545300
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## date28/01/2022	0.316355
## date28/02/2019	0.582734
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## date28/02/2021	0.015509 *
## date28/02/2022	0.304640
## date28/03/2019	0.906576
## date28/03/2020	0.011981 *
## date28/03/2021	0.157300
## date28/03/2022	0.388469
## date28/04/2019	0.829918
## date28/04/2020	0.871990
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## date28/04/2022	0.888254
## date28/05/2019	0.680920
## date28/05/2020	0.054475 .
## date28/05/2021	0.127173
## date28/06/2019	0.820443
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## date28/06/2021	0.164942
## date28/07/2019	0.979934
## date28/07/2020	0.854205
## date28/07/2021	0.348415
## date28/08/2019	0.975355
## date28/08/2020	0.694093
## date28/08/2021	0.705442
## date28/09/2019	0.801807
## date28/09/2020	0.013818 *
## date28/09/2021	0.656709
## date28/10/2019	0.937740

## date28/10/2020	0.010412 *
## date28/10/2021	0.334058
## date28/11/2019	0.773477
## date28/11/2020	0.020770 *
## date28/11/2021	0.546598
## date28/12/2019	0.728235
## date28/12/2020	0.097262 .
## date28/12/2021	0.160070
## date29/01/2020	0.797188
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## date29/01/2022	0.537948
## date29/02/2020	0.268705
## date29/03/2020	0.041166 *
## date29/03/2021	0.040000 *
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## date29/04/2019	0.666655
## date29/04/2020	0.814334
## date29/04/2021	0.364570
## date29/04/2022	0.478193
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## date29/05/2021	0.355364
## date29/06/2019	0.887913
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## date29/07/2019	0.473499
## date29/07/2020	0.506422
## date29/07/2021	0.343680
## date29/08/2019	0.931587
## date29/08/2020	0.505366
## date29/08/2021	0.362963
## date29/09/2019	0.756757
## date29/09/2020	0.032503 *
## date29/09/2021	0.519769
## date29/10/2019	0.930275
## date29/10/2020	0.008132 **
## date29/10/2021	0.354632
## date29/11/2018	0.735911
## date29/11/2019	0.613361
## date29/11/2020	0.009597 **
## date29/11/2021	0.716330
## date29/12/2019	0.614116
## date29/12/2020	0.000496 ***
## date29/12/2021	0.227357
## date30/01/2020	0.656630
## date30/01/2021	0.005258 **
## date30/01/2022	0.104309
## date30/03/2020	2.67e-09 ***
## date30/03/2021	0.819863
## date30/03/2022	0.401614
## date30/04/2019	0.005055 **
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## date30/04/2022	0.716854

## date30/05/2019	0.656880
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## date30/08/2020	0.982212
## date30/08/2021	0.910935
## date30/09/2019	0.434568
## date30/09/2020	0.023750 *
## date30/09/2021	0.503114
## date30/10/2019	0.725014
## date30/10/2020	0.000479 ***
## date30/10/2021	0.622836
## date30/11/2019	0.602156
## date30/11/2020	0.008676 **
## date30/11/2021	0.302919
## date30/12/2019	0.801402
## date30/12/2020	1.92e-05 ***
## date30/12/2021	0.093616 .
## date31/01/2019	0.317540
## date31/01/2020	0.874903
## date31/01/2021	0.001771 **
## date31/01/2022	0.264700
## date31/03/2020	0.928820
## date31/03/2021	0.083545 .
## date31/03/2022	0.585336
## date31/05/2019	0.203287
## date31/05/2020	0.098403 .
## date31/05/2021	0.618564
## date31/07/2019	0.959531
## date31/07/2020	0.091764 .
## date31/07/2021	0.354211
## date31/08/2019	0.943348
## date31/08/2020	0.479150
## date31/08/2021	0.299759
## date31/10/2019	0.411886
## date31/10/2020	0.002512 **
## date31/10/2021	0.396430
## date31/12/2019	0.943209
## date31/12/2020	1.93e-06 ***
## date31/12/2021	0.461772
## day_time_hour00	0.306802
## day_time_hour01	0.580126
## day_time_hour02	0.256131
## day_time_hour03	0.923725
## day_time_hour04	0.046791 *
## day_time_hour05	0.134709
## day_time_hour06	0.080444 .
## day_time_hour07	0.158422

```
## day_time_hour08      0.022455 *
## day_time_hour09      0.018815 *
## day_time_hour1       0.151645
## day_time_hour10      0.006439 **
## day_time_hour11      0.000394 ***
## day_time_hour12      0.002085 **
## day_time_hour13      0.002026 **
## day_time_hour14      0.000437 ***
## day_time_hour15      0.002535 **
## day_time_hour16      0.085246 .
## day_time_hour17      0.037960 *
## day_time_hour18      0.070765 .
## day_time_hour19      0.082000 .
## day_time_hour2       0.913632
## day_time_hour20      0.088777 .
## day_time_hour21      0.001041 **
## day_time_hour22      0.002718 **
## day_time_hour23      0.056945 .
## day_time_hour3       0.442968
## day_time_hour4       0.086664 .
## day_time_hour5       0.230207
## day_time_hour6       0.083248 .
## day_time_hour7       0.296817
## day_time_hour8       0.039234 *
## day_time_hour9       0.157412
## year                  NA
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 3658 on 20820 degrees of freedom
## Multiple R-squared:  0.9666, Adjusted R-squared:  0.9646
## F-statistic: 471.5 on 1279 and 20820 DF,  p-value: < 2.2e-16
```

```
# lm_prediction <- predict(data_lm, newdata = data_test)
```

```
???? + equip_yoga_block + equip_yoga_blanket + equip_yoga_mat + equip_yoga_strap +
equip_strength_weights_light + equip_strength_weights_medium + equip_strength_weights_heavy
+ equip_strength_resistanceband + equip_workout_mat
```

Conclusion