## Project Proposal

## 2023-11-30

```
library(readr)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(knitr)
library(ggplot2)
data <- read_csv("data.csv")</pre>
## Rows: 6012 Columns: 144
## -- Column specification -----
## Delimiter: ","
## chr
          (8): R_fighter, B_fighter, Referee, location, Winner, weight_class, B...
       (134): B_avg_KD, B_avg_opp_KD, B_avg_SIG_STR_pct, B_avg_opp_SIG_STR_pct...
          (1): title_bout
## lgl
## date
          (1): date
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
data <- subset(data, !(weight_class %in% c("CatchWeight", "WomenBantamweight", "WomenFeatherweight", "W
data <- data %>% mutate(weight = case_when(weight_class == "Flyweight" ~ 125,
                                   weight_class == "Bantamweight" ~ 135,
                                   weight_class == "Featherweight" ~ 145,
                                   weight_class == "Lightweight" ~ 155,
                                   weight_class == "Welterweight" ~ 170,
                                   weight class == "Middleweight" ~ 185,
                                   weight_class == "LightHeavyweight" ~ 205,
```

## 'summarise()' has grouped output by 'new\_class'. You can override using the
## '.groups' argument.

```
kable(freq, caption = "Frequency of Weight Class Fights")
```

Table 1: Frequency of Weight Class Fights

new_class	weight_class	weight	count
Class 1	Flyweight	125	230
Class 1	Bantamweight	135	475
Class 1	Featherweight	145	551
Class 2	Lightweight	155	1091
Class 2	Welterweight	170	1083
Class 3	Middleweight	185	813
Class 3	LightHeavyweight	205	573
Class 4	Heavyweight	265	585
Class 4	OpenWeight	300	86



