

# UFC FIGHT ANALYSIS

## 1993 TO 2019

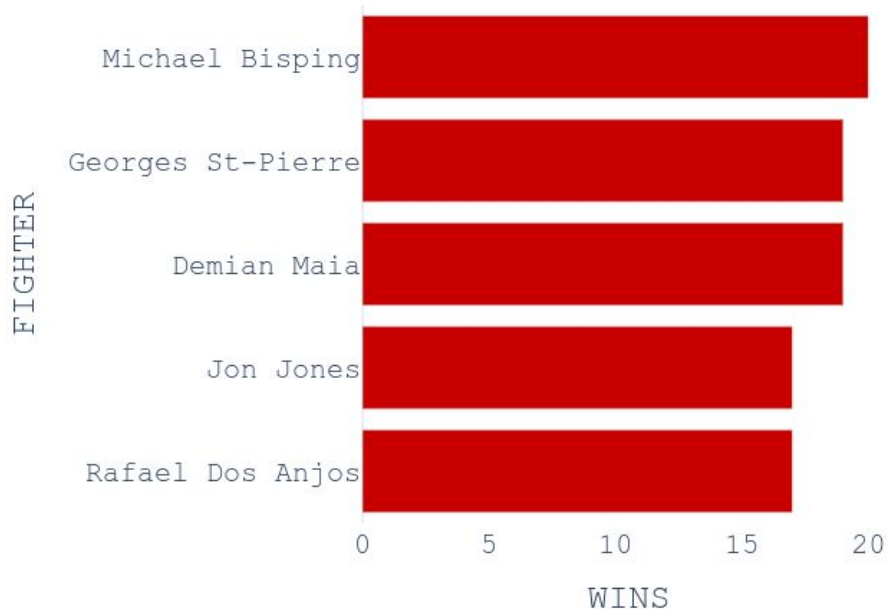
Author: Christian Hartler

# Objective of the analysis

Determining what are the major features to look in a UFC fighter by answering following questions:

- Who has won the most title fights?
- What is the most determining factor for winning a fight?
- How does align with the fighter's longest winning streak?
- How does this factor compare to the sum of won fights?
- Can we safely use this factor to determine the outcome of fights?

# Title wins & win determining factor



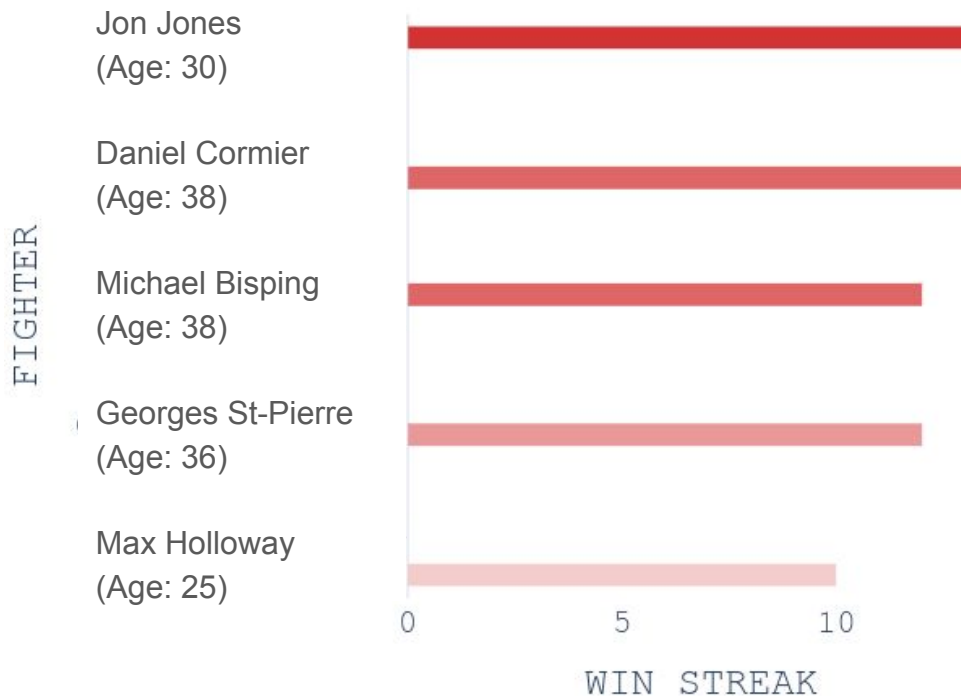
Overall model analysis of won fights show many different factors to determine a win with a prediction **accuracy of 65 %**

Most important factors were

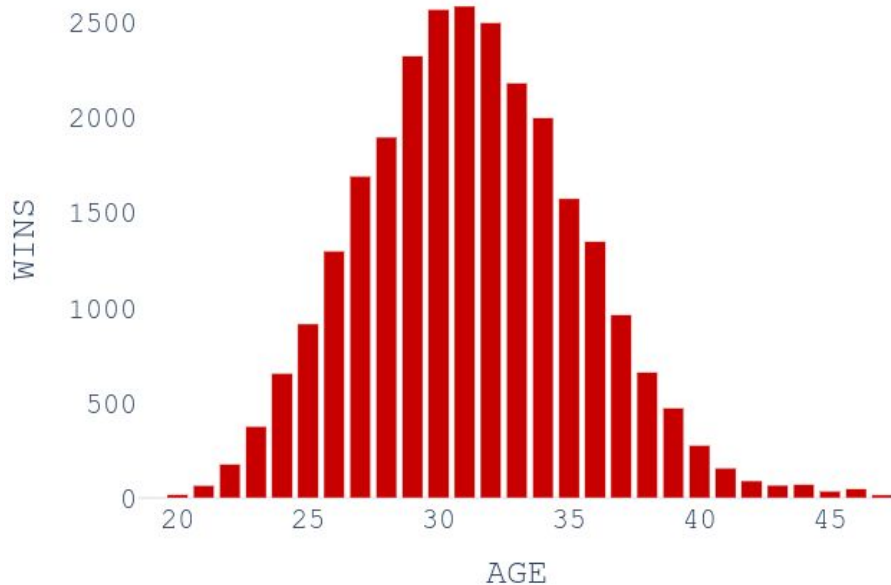
- Both fighter's **AGE**
- And how many **different strikes** the winning fighter endured

# Fight streaks per age

Fighter's with the longest win streaks in a row vary between the age of 25 and 30 and are comparable to the biggest title fighters Jon Jones and Michael Bisping



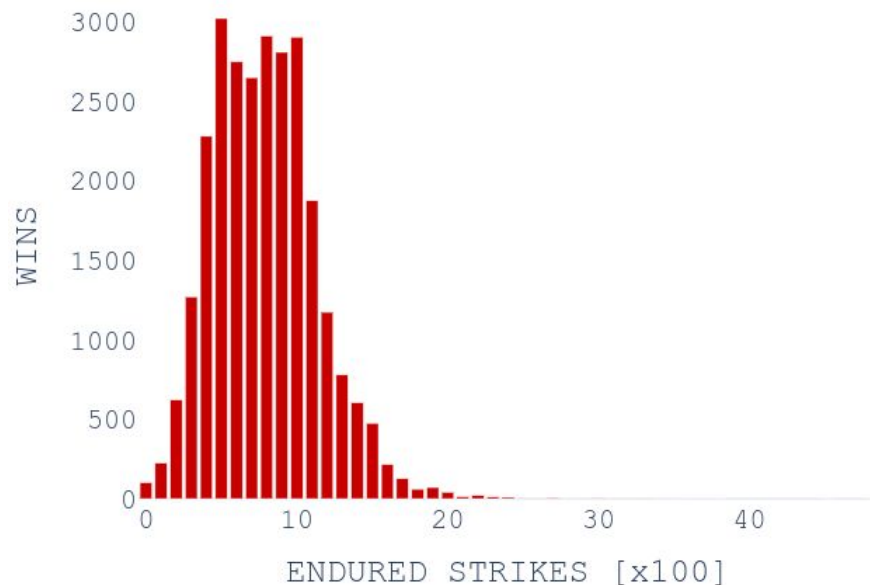
# Age to won fights



Further analysis for fighter's age reveal that the fighter's prime is between the **age 29 to 33**

# Endured strikes to won fights

The strikes that the fighter received during his career seem to have also an impact, which can be related to the fighter's **experience**



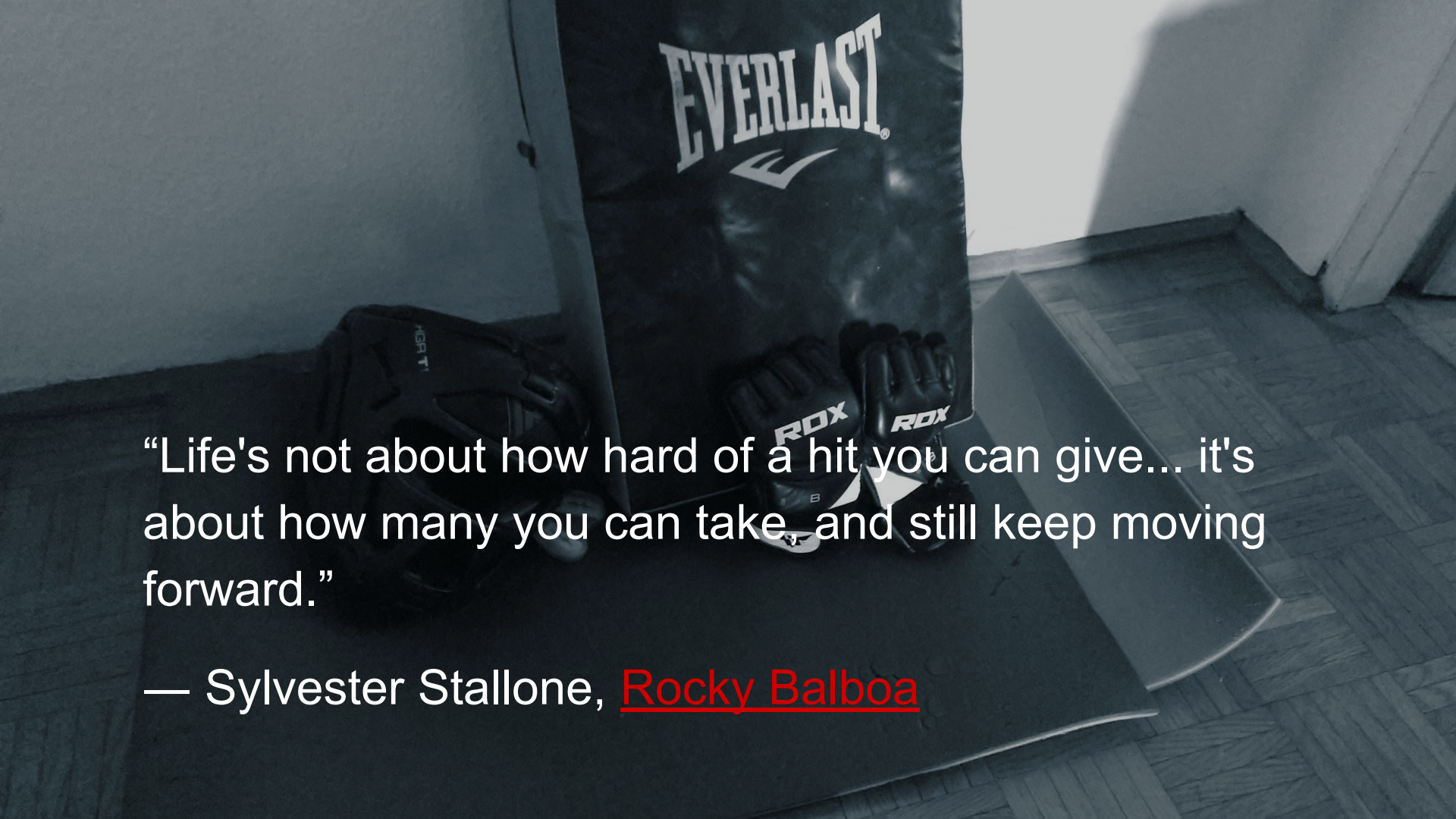
# Summary and outlook

The most determining features for a fight are **Age & Experience** of the fighter

The used models only have a prediction **accuracy of 65 %**, which is not enough to safely predict the outcome of a fight

This can be related to the many features that need to be considered in a fight

Further analysis is necessary but a higher prediction accuracy is unlikely due to the amount of fight determining factors



“Life's not about how hard of a hit you can give... it's about how many you can take, and still keep moving forward.”

— Sylvester Stallone, [Rocky Balboa](#)