**FIFA 19 beginner data analysis**

<https://www.kaggle.com/dczerniawko/fifa19-analysis>

**This is my first data project, where we look at some basics of the video game FIFA 19.**

**BASICS**

1. Import packages etc.
2. Load dataset
3. Show info about dataset
4. List a dataframe (df) sample
   1. List the first 5 rows
5. Show info about dataset
6. Show shape of data set (rows and columns)
7. Show which columns there are in the dataset (Name, age, flag, Overall, Potential etc.)
8. Remove null values
9. Chose the columns I want to work with
10. Create a Dataframe with the chosen columns
    1. Print a sample of that Dataframe

**START ANALYSIS (BASIC)**

1. **List the 5 best players**
   1. **List 5 best players per position (ST, LW, RW, CAM, CM, CDM, LB, RB, CB, GK)**
2. **Players age**
   1. **List the count of players per age (ex. 1320, 21 yo.)**
   2. **Histogram of players age (histogram)**
   3. Make databinning on players age (U18, U21, U23, Normal age, old players)
   4. **Oldest players (List)**
   5. **Youngest players (List)**
   6. **List 5 clubs age distribution (Liverpool, Bilbao, Napoli, Man. City, Juventus)**
3. **Show international reputation vs age (graph)**
4. **Players with most overall stats (special)(list)**
   1. **Most overall stats per position (list)**
5. Count how many has each weak foot (list, 1 = 23, 2 = 290, 3 = 530 etc.)
   1. Average weak foot per preferred foot (ex. Right foot = 3,5 and Left foot = 2,3, list and histogram)

**ANALYSIS (MORE ADVANCED, MAKE A NEW KERNEL)**

1. List tallest players (list)
   1. Tallest players per position (List)
   2. 5 heaviest players (list)
   3. Highest and lowest BMI (list)
   4. Under-, normal-, og overweight players (histogram)
2. List 5 best stamina players
   1. Show graph of stamina/age relation (age = x, stamina = y)
   2. Show average stamina per stamina (histogram, medium-medium = 78, high-high = 85 etc.)