**Data Science Case Study**

Notes:

* This exercise should take approximately 1 hour.
* You can use any analysis software (e.g. Python, R, ...).
* Share both the analysis results (slides, document, ...) and source code when you're done.
* Keep the analysis results short, no more than 2 pages (if it's a document) or 5 slides (if it's a slide deck).

**Soccer dataset analysis**

*Did you follow the FIFA World Cup 2018? Let’s play with some soccer data.*

Data: Master and Scoring tables (csv files).

Also, in the Scoring table, ignore those records with AB (shots) < 502.

Note that you are not tested on soccer knowledge, so it's cool even if you're not a soccer fan. The only soccer knowledge you will need is "**Shooting Percentage = goals scored/shots**" or H column /AB column in Scoring table. That will be our performance metric for a player for the given year/season.

See <https://captaincalculator.com/sports/soccer/shooting-percentage-calculator/>.

Now, use the above data and information to answer the following questions:

1. How would you visualize the time series of the distribution of players' shooting percentage over years? Is there any trend?
2. Find the player with the highest shooting percentage in each year, over 1980-latest. Summarize it in the table with the following columns:
   * Year
   * Name (First and Last) of the player
   * Shooting percentage of the player during the given year
   * Age of the player at the given year
3. Come up with any interesting analysis/visualization of this data.