Undertanding the cartwheel data set

The notebook aims to undertand the content of the cartwheel data set.

Acknowledgments

• Data from https://www.coursera.org/ from the course "Understanding and Visualizing Data with Python" by University of Michigan

Cartwheel data set

1. A cartwheel

cartwheel1.png

- 2. The dataset description
 - The dataset used here is an extension from the original cartwheel dataset from cursera
 - Total numer of observations: 28
 - · Many observations/measurements/recordings of the characteristics/attributes/variables of cartwheel executions
 - · Variables: Age, Gender, GenderGroup, Glasses, GlassesGroup, Height, Wingspan, CWDistance, ... (X variables)

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Importing and inspecting the data

```
# Define where you are running the code: colab or local
                           # (False: no | True: yes)
RunTnColah
                = True
# If running in colab:
if RunInColab:
   # Mount your google drive in google colab
   from google.colab import drive
   drive.mount('/content/drive')
   # Find location
   #!ls
   #!ls "/content/drive/My Drive/Colab Notebooks/MachineLearningWithPython/"
   # Define path del proyecto
                  = "/content/drive/MyDrive/!Tec stuff/!Uni/Semestre 2/Semana Tec1/TC1002S/NotebooksStudents/A01637683"
    # Define path del proyecto
     Mounted at /content/drive
# Import the packages that we will be using
import pandas as pd
# Dataset url
Dataset="/content/drive/MyDrive/!Tec stuff/!Uni/Semestre 2/Semana Tec1/TC1002S/NotebooksProfessor/datasets/cartwheel/cartwheel.csv"
# Load the dataset
db=pd.read_csv(Dataset)
# Print the dataset
print(db)
```

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```
# Print the number of rows
len(db.index)

52
# Print the number of columns
print(len(db.columns))
```

Activity: work with the iris dataset

- 1. Load the iris.csv file in your computer and understand the dataset
- 2. How many observations (rows) are in total?

149

- 3. How many variables (columns) are in total? What do they represent? 5, they represent the values of the characteristics assigned to each of the flowers
- 4. How many observations are for each type of flower? 4
- 5. What is the type of data for each variable? Numerical float numbers
- 6. What are the units of each variable? Tnee values of each of the variables on the iris cvs are float numbers

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