

# MODERN DATA ARCHITECTURES II:

## GROUP ASSIGNMENT – GROUP 3

### **Project Roles & Responsibilities & Organization – Who did what? How did every team member contribute to the assignment?**

We are a team of six members, where all contributed to the project:

#### Data Source Master & Project Coordinator – Ignacio Alonso.

- He researched the API documentation on RapidAPI about API-football.com
- He made the Beautiful Soup 4 code to extract the insights from Transfermarkt
- Flatten the files and dataframe consolidation into CSV
- He oversaw all other phases of the project with input and quality control.
- Created first Pandas and API Requests notebook regarding Data Retrieval.

#### “Sparky” Geniuses & Insights Champions – Katherine Bade, Baptiste Richard and Zeyad Al-houti

They performed all insights in the project based on the capabilities of the football final dataset, merge modelling.csv

- They made the repositories in HDFS to allocate the CSV
- Created the Spark notebook.
- Found the way to compute the Machine Learning model to discover undervalued and overvalued players.
- Built 4 models to adapt statistics to rating and order by market value.

#### Visual & Scripting Managers – Ana Belén & Enrico Bonilauri

- They oversaw all the visual work in the assignment as well as the writing of this document. Imitating the class presentation was key for delivery impact.
- In charge of keeping track of deadlines and deliverables of each phase