

BasketballPlayers

Classification dataset for identifying/recognizing roles of basketball players.

We have built two versions of this dataset:

- sel-players
- ACB

sel-players dataset

It has been used in the following paper:

- Jose M. Alonso, [Teaching Explainable Artificial Intelligence to High School Students](#), International Journal of Computational Intelligence Systems, Atlantis Press, 2020.

In addition, it has been used in the following Scratch project:

- [xai4all on Scratch](#)
- [xai4all on YouTube \(Part1\)](#)
- [xai4all on YouTube \(Part2\)](#)
- [xai4all on YouTube \(Part3\)](#)

The dataset is made up of 100 samples corresponding to five classes (Point Guard, Shooting Guard, Small Forward, Power Forward, Center) which are linked to 11 attributes (Height, Minutes, Points, 2P-Field-Goals-Perc, 3P-Field-Goals-Perc, Free-Throws, Rebounds, Assists, Blocks, Turnovers, and Global Assessment).

The dataset is perfectly balanced with 20 samples belonging to each class. Numerical values associated to each sample correspond to statistics available online at the website of the Spanish Male and Female Basketball League:

- [Spanish Male Basketball League](#)
- [Spanish Female Basketball League](#)

For each player, we have taken statistics related to their entire career.

In the repository you can find 10 files (all of them in *.arff format, i.e., the Weka format):

- [sel-players-EN.txt.arff.all.arff](#) (the whole dataset with header in English)
- [sel-players-ES.txt.arff.all.arff](#) (the whole dataset with header in Spanish)
- [sel-players-EN.txt.arff.men.arff](#) (only male players from the whole dataset with header in English)
- [sel-players-ES.txt.arff.men.arff](#) (only male players from the whole dataset with header in Spanish)
- [sel-players-EN.txt.arff.women.arff](#) (only female players from the whole dataset with header in English)
- [sel-players-ES.txt.arff.women.arff](#) (only female players from the whole dataset with header in Spanish)
- [sel-players-EN.txt.arff.black.arff](#) (only black players from the whole dataset with header in English)
- [sel-players-ES.txt.arff.black.arff](#) (only black players from the whole dataset with header in Spanish)
- [sel-players-EN.txt.arff.white.arff](#) (only white players from the whole dataset with header in English)
- [sel-players-ES.txt.arff.white.arff](#) (only white players from the whole dataset with header in Spanish)

Notice that [Weka](#) is the Waikato Environment for Knowledge Analysis. We selected the Weka format because Weka is a very well-known open source Data Mining project, led by researchers affiliated to the University of Waikato (New Zealand), and with a huge community of users and developers worldwide.

ACB dataset

It has been used in the following paper:

- Jose M. Alonso, [Explainable Artificial Intelligence for Kids](#), 11th Conference of the European Society for Fuzzy Logic and Technology (EUSFLAT), pp. 134-141, Atlantis Press, 2019.

And also in the following Scratch project:

- [xai4kids on Scratch](#)
- [xai4kids on YouTube](#)

The dataset is made up of 80 samples corresponding to four classes (Point Guard, Shooting Guard, Small Forward, Center) which are linked to 13 attributes (Height, Blocks, Rebounds, Assists, Points, Personal Fouls Made, Personal Fouls Received, Free Throws Percentage, 2-point Field Goals Percentage, 3-point Field Goals Percentage, Turnovers, Steals, and Global Assessment).

The dataset is perfectly balanced with 20 samples belonging to each class. Numerical values associated to each sample correspond to statistics available online at the website of the Spanish Basketball League ACB (<http://www.acb.com/>). For each player, we have taken statistics related to season 2017-2018.

In the repository you can find 4 files (all of them in *.arff format, i.e., the Weka format):

- [ACB.csv.arff](#) (the whole dataset with header in Spanish)
- [ACB-EN.csv.arff](#) (the same dataset but with header in English)
- [ACB.train.csv.arff](#) (80% of samples taken from the original dataset)
- [ACB.test.csv.arff](#) (the remaining 20% of samples from the original dataset)

INFORMACIÓN

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Licenza

DESCARGAR

- 📁 Repositorio Gitlab
- 📄 Descargar de Gitlab

PUBLICACIONES

Explainable Artificial Intelligence for Kids
11th Conference of the European Society for Fuzzy Logic and Technology, 2019

PROXECTOS DE INVESTIGACIÓN

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