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**Valuing Benfica Football Players**

**Programming for Data Science**

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# Introduction

The transfer market in football is a multi-billion dollar industry, with clubs around the world investing heavily in player acquisitions. Determining the market value of a player can be a complex and challenging task. In this paper, we present a statistical model that aims to solve the problem of accurately determining the prices of S.L. Benfica football players based on their age, goals scored, positions, preferred foot, and other relevant factors.

**Objectives:**

The main objective of this paper is to develop a statistical model that can accurately predict the prices of S.L. Benfica football players based on their performance metrics and other relevant factors. To achieve this objective, we have trained our model on historical sales data starting in 2010, using performance metrics such as goals scored, assists, and cards, as well as player age, position, and preferred foot, to predict the prices of current players.

In addition, we have secondary objectives that include understanding how player prices are determined and identifying which factors are most important in determining the prices of football players.

By achieving these objectives, we hope to provide valuable insights into the transfer market and help football clubs make more informed decisions when buying and selling players.

**Contributions:**

This model can help clubs make informed decisions when buying and selling players in the transfer market. Secondly, our study provides insights into which factors are most important in determining the prices of football players, which can be useful for future research in this field.

In conclusion, our paper presents a novel approach to predicting the prices of football players using a statistical model based on their performance metrics and other relevant factors. We believe that our model has the potential to revolutionize the way football clubs evaluate player values and make transfer decisions, not only for S.L. Benfica but also for other football clubs around the world.

# Literature review

# Methodology

# Results

# Discussion

*There are, of course, questions raised by this research. For example, given that National Team experience affects value, to what extent does this effect depend upon the nature of that experience?*

# Conclusion