EVALUATING THE MARKET VALUE OF ENGLISH PREMIER LEAGUE PLAYERS FOR SUMMER INVESTMENTS BY ARSENAL F.C.

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INTRODUCTION

ARSENAL PAST RESULTS

- Arsenal squad has been performing poorly in the past 2 seasons

    - Not scoring enough goals

    - Injuries and lack of squad depth

EVEN
GUNNERSAURUS
IS UPSET
WITH THE
SITUATION....!

INTRODUCTION

JANUARY TRANSFER MARKET PLANS

- **Arsenal FC board and management had to react before things got too late**

- **The management had recognized that**

  - **Strengthen squad in depth**

  - **investment in positions in the 1st team**

  - **Young players preferably British**

  - **Budget range**

METHODOLOGY

- **OUTCOME**
  - Finding the 'Market Value' of target players - features/skills in EPL
- **FEATUERES**
  - Age
  - Minutes Played
  - Goals
  - Assists
  - Nationality (British , EU , World)
  - Position of play (FW , MD , DF , GK)
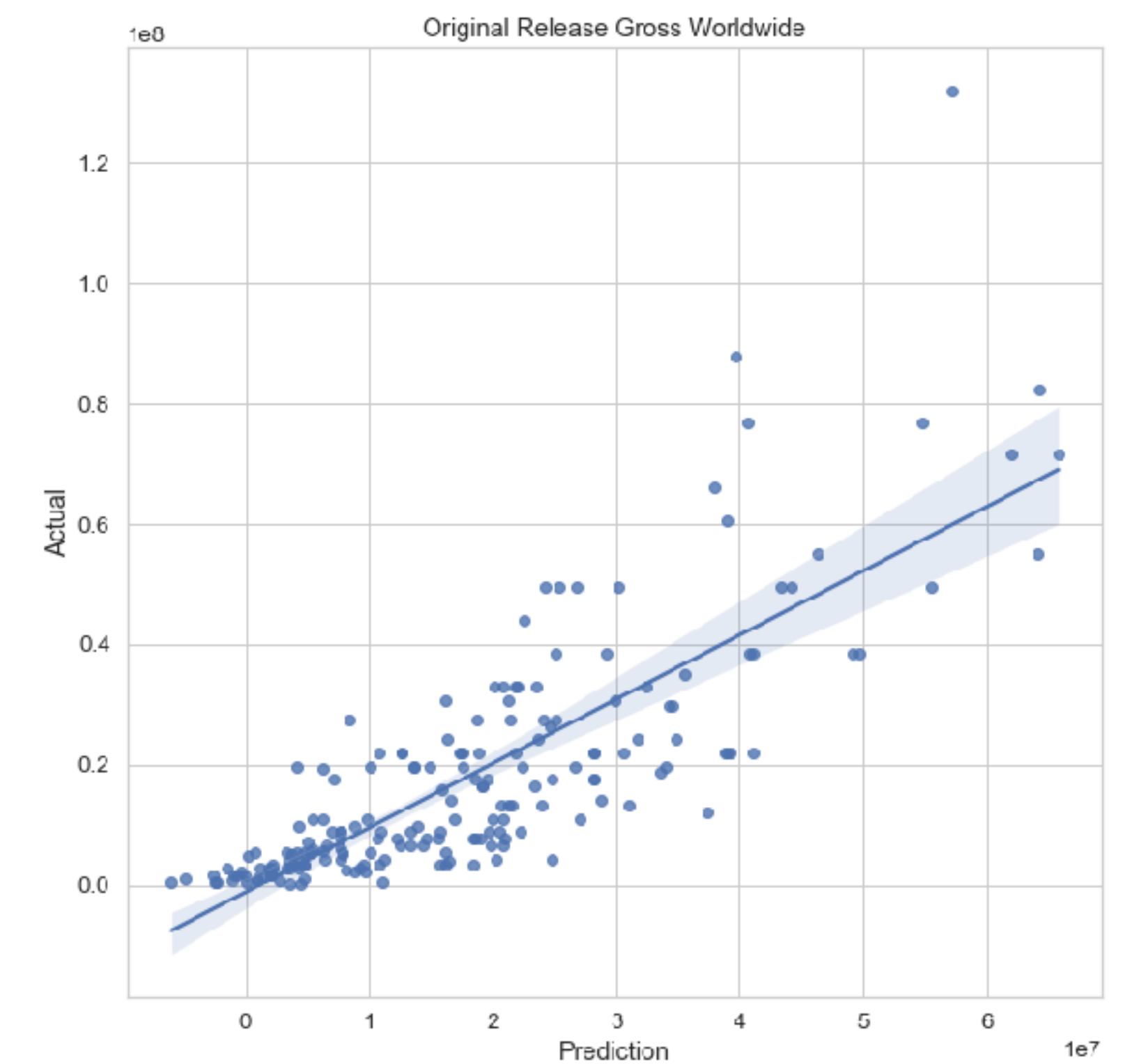 - Players current team (top 6 - other)

METHODOLOGY

THE DATA

- **WEB-SCRAPED**

  - **Player Features/Skills**

    - **FBREF.com/Soccer**

  - **Player Market Values**

    - **TransferMarket.co.uk**

RESULTS

- **R^2 = .645**

- **MAE = $ 7,856,451**

Original Release Gross Worldwide

CONCLUSIONS

RECOMMENDATIONS

- **Arsenal management**

  - **With the help of 'Predicted Values' from regression model:**

    - **Stayed in budget**

    - **Entered negotiations for players strong headed**

    - **Addressed targeted position with your talents**

CONCLUSIONS

MAIN TARGETS: STRIKER (FW)

- **Dominic Calvert-Lewin (Age 23)**
  - **Everton FC Value $49,500,000**
- **Arsenal knew he's only worth:**
  - **Predicted Value $25,606,000**

CONCLUSIONS

- **Arsenal Final Decision**

    - **Purchase DCL?**

    - **Trust in their academy youth ?**

FUTURE WORK

- **Expand on the features**

  - **Using another set of data from other websites**

  - **Generate engineered features in order to raise the R^2**