

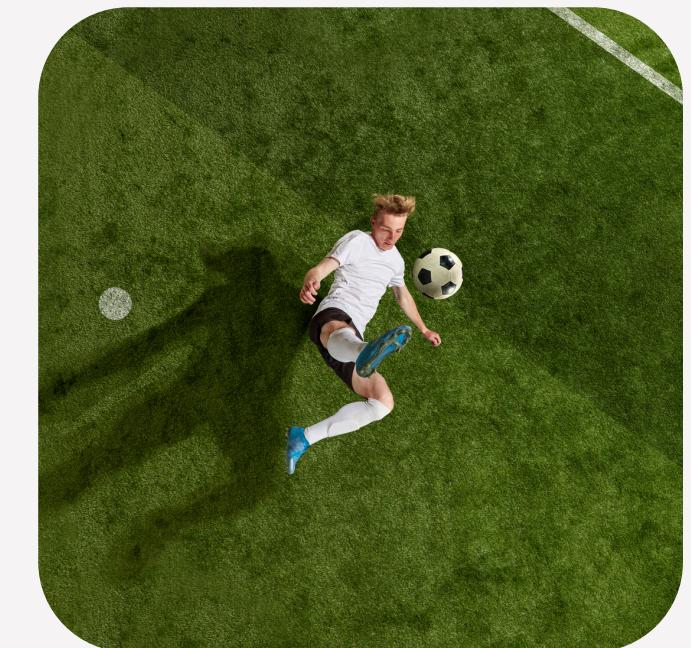
SALFORD & CO.

# FIFA 21 PLAYER SCOUTING ANALYSIS

## OPTIMIZING PLAYERS RECRUITMENT



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# AGENDA

- Introduction
- Methodology
  - Key insights
  - Visualizations
  - Recommendations

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# PROJECT OVERVIEW



**Goal:** Identify young (Age  $\leq 23$ ), high-potential players (Potential Rating  $\geq 80$ )

**Why:** Optimize scouting, save resources, and gain a competitive edge in transfers.

**Data:** FIFA 21 dataset (fifa21\_raw\_data.csv, 18,000+ players).

**Approach:** Machine learning classification with high Recall to minimize missing talent.

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## DATA PREPARATION

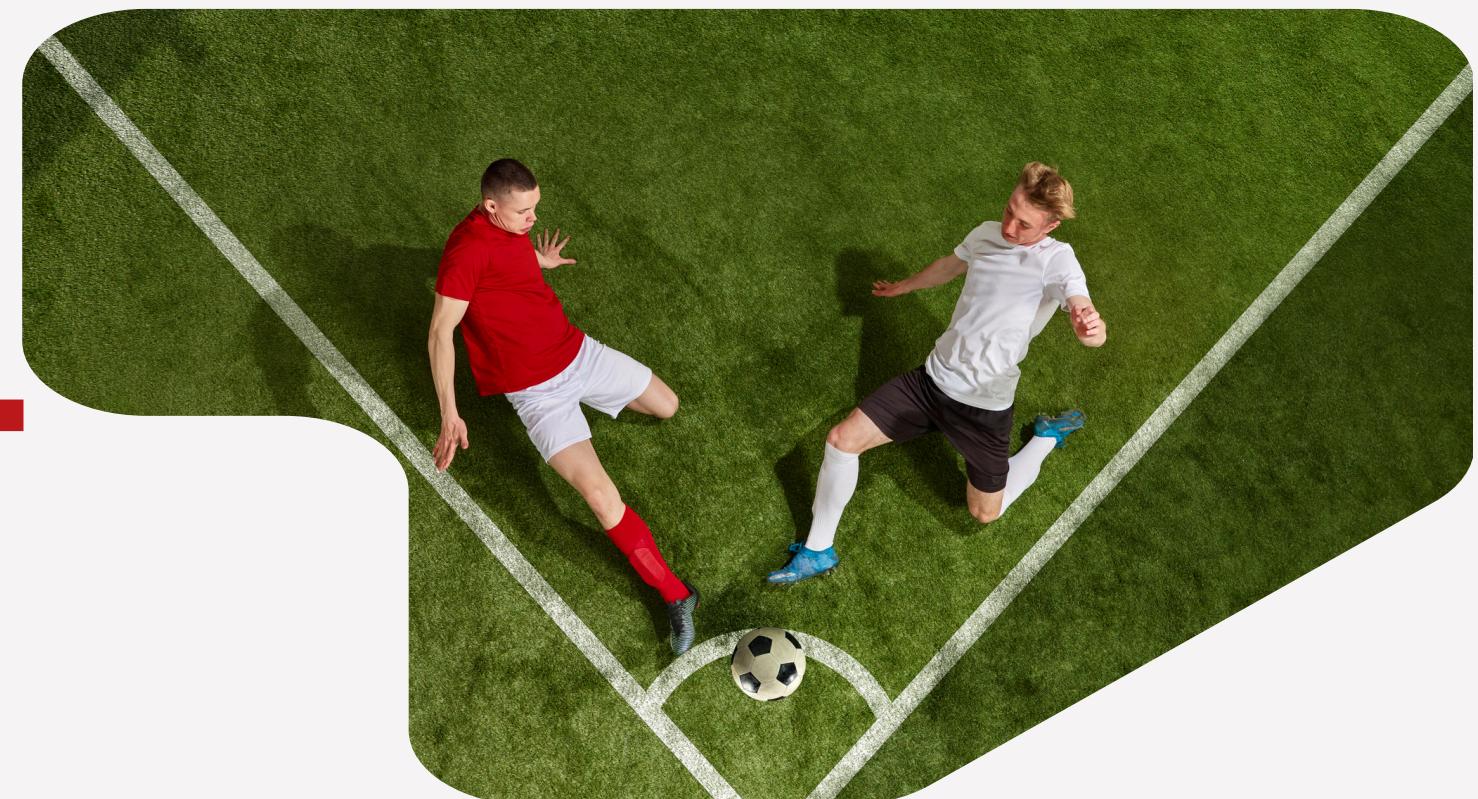
- Filtered for Age  $\leq 23$  (6,000 players).
- Key features: ↓OVA, POT, Value, Attacking, Skill, Defending.
- Added High\_Potential (if POT  $\geq 80$ , else 0). ....

## MODELING

- Logistic Regression and Decision Tree models.
- Optimized for Recall to capture most high-potential players.
- Evaluated using ROC Curve.



## DATA AND MODEL



# INSIGHTS FROM ANALYSIS



## Undervalued Talent:

Many high-potential players have low market value.  
(€500K–€5M)

**Key Attributes:** ↓OVA, Attacking, and Skill strongly predict high potential.



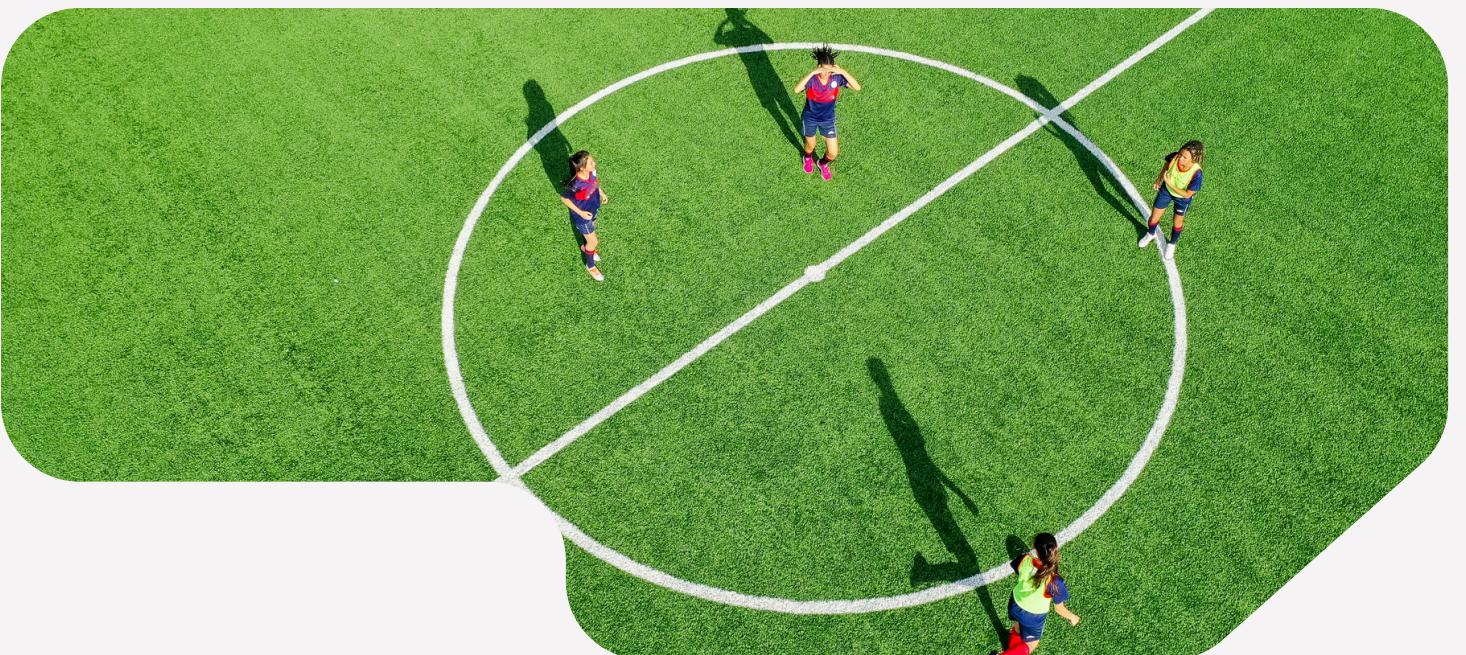
## Model Confidence:

High Recall ensures few prospects are missed with reliable ranking.

## Scarcity of high-potential

**players :** (~10%) and the model's ability to identify them (~85% Recall) using key columns like Value, Dribbling, and ↓OVA. The ranking of players like Mbappé validates the model's effectiveness.

# TABLEAU VISUALIZATIONS OVERVIEW



**Bar graph :**  
Predicted potential vs  
Market value

**Scatter plot:**  
Performance metric comparison.

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**Scatter plot:**  
Age comparison to POT and market value.

# VISUALIZATIONS

Predicted probability against Market value

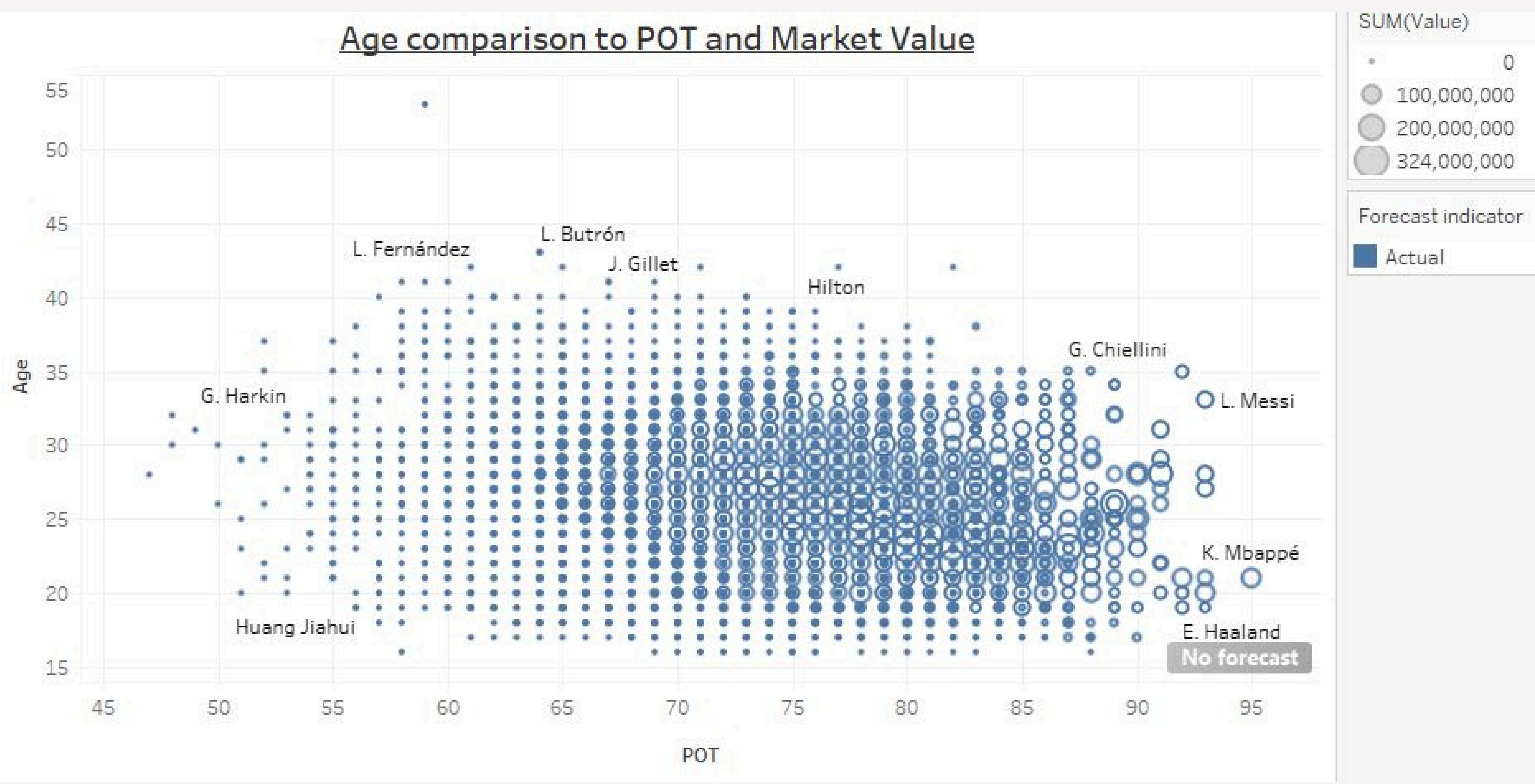


- Name (player ranking color)
- J. García
  - J. Rodríguez
  - J. Sánchez
  - J. Taylor
  - A. Gómez
  - A. González
  - A. Traoré
  - Danilo
  - E. López
  - E. Pérez
  - J. Angulo
  - J. Arias
  - J. Brown
  - J. Clarke
  - J. Jones
  - J. Moreno
  - J. Rojas
  - J. Valencia
  - M. Smith
  - Paulinho

## Performance metric comparison



## Age comparison to POT and Market Value



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# ACTIONABLE RECOMMENDATIONS

- Target Top Prospects: Scout the top 20 players from the analyzed data with probabilities  $\geq 0.8$ . Arrange trials or review footage in July 2025.
- Focus on Skills: Prioritize players with Dribbling  $\geq 75$  and strong Skill scores for attacking and midfield roles.
- Sign Young Talent: Negotiate for players aged 18–20 with Value  $\leq \text{€}5M$  (e.g., €3M, probability  $\geq 0.75$ ) for long-term value.
- Pilot the Model: Sign 2–3 top-ranked players in July 2025, track their performance, and update the model with new data in January 2026.

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**ANY QUESTIONS?**

PRESENTED BY : Shallom Githui

TABLEAU DASHBOARD LINK :

[https://public.tableau.com/app/profile/shallom.githui2246/viz/Book1\\_17495542269330/Dashboard1](https://public.tableau.com/app/profile/shallom.githui2246/viz/Book1_17495542269330/Dashboard1)

GITHUB LINK :

[https://github.com/Husky-69/Fifa21\\_classification\\_project/tree/main](https://github.com/Husky-69/Fifa21_classification_project/tree/main)