

Econometrics Project: Football players price in the transfer market

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Outline

- Why this subject?
- First model
- Second model
- Comparison with reality

Subject

- Unbelievable prices



Regression 1

Dependent Variable: PRICE
 Method: Least Squares
 Date: 05/09/12 Time: 10:32
 Sample: 1 42
 Included observations: 42

	Coefficient	Std. Error	t-Statistic	Prob.
C	22.11048	15.55989	1.420992	0.1644
AGE	0.042209	0.611554	0.069019	0.9454
GOAL	0.694829	0.139134	4.993963	0.0000
TITLES	0.388115	0.346672	1.119545	0.2708
ASSISTS	0.663511	0.241178	2.751123	0.0095
MINUTESGOAL	0.004882	0.002852	1.711998	0.0960
MATCH	-0.230289	0.209514	-1.099157	0.2794
RANKING	0.345878	0.810439	0.426778	0.6722
R-squared	0.644704	Mean dependent var		39.71429
Adjusted R-squared	0.571555	S.D. dependent var		15.06941
S.E. of regression	9.863793	Akaike info criterion		7.585262
Sum squared resid	3308.010	Schwarz criterion		7.916247
Log likelihood	-151.2905	Hannan-Quinn criter.		7.706581
F-statistic	8.813547	Durbin-Watson stat		1.077185
Prob(F-statistic)	0.000004			

$$\begin{aligned}
 Price_i = & \beta_1 + \beta_2 Age_i + \beta_3 Goal_i + \beta_4 Title_i + \beta_5 Match_i + \beta_6 MinuteGoal_i \\
 & + \beta_7 Ranking_i + \beta_8 Assist_i + u_i \quad (1)
 \end{aligned}$$

Wald test

Wald Test:

Equation: Untitled

Test Statistic	Value	df	Probability
F-statistic	0.103023	(2, 34)	0.9024
Chi-square	0.206046	2	0.9021

Null Hypothesis Summary:

Normalized Restriction (= 0)	Value	Std. Err.
C(2)	0.042209	0.611554
C(8)	0.345878	0.810439

Restrictions are linear in coefficients.

- Null Hypothesis not rejected

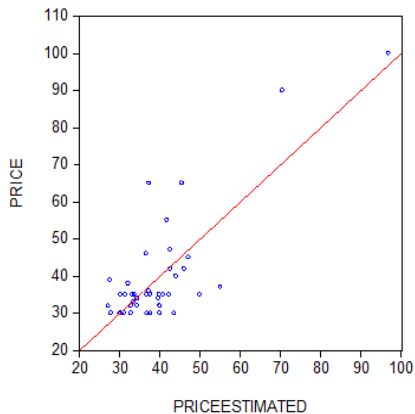
Regression2

Dependent Variable: PRICE
 Method: Least Squares
 Date: 05/09/12 Time: 19:35
 Sample: 1 42
 Included observations: 42

	Coefficient	Std. Error	t-Statistic	Prob.
C	24.23376	7.109887	3.408459	0.0016
GOAL	0.687461	0.131884	5.212615	0.0000
TITLES	0.398032	0.279751	1.422807	0.1634
ASSISTS	0.654099	0.230659	2.835781	0.0075
MINUTESGOAL	0.004894	0.002694	1.816550	0.0776
MATCH	-0.230922	0.200612	-1.151092	0.2573
R-squared	0.642551	Mean dependent var		39.71429
Adjusted R-squared	0.592905	S.D. dependent var		15.06941
S.E. of regression	9.614886	Akaike info criterion		7.496066
Sum squared resid	3328.057	Schwarz criterion		7.744304
Log likelihood	-151.4174	Hannan-Quinn criter.		7.587055
F-statistic	12.94272	Durbin-Watson stat		1.115978
Prob(F-statistic)	0.000000			

- Homoscedasticity and normality tests of Residuals have been done

Comparison to the real price



END

- Thank you for your attention
Questions?