

Big Data Analytics

CEBD 1260

Allen Lee

Problem Definition

What is the theoretical value of a player

Dataset Description

- One table
- 17,994 Rows
- 185 Columns
- Contains player attributes

name	club	age	league	height_cm	weight	nationality	eur_value	eur_wage	eur_release	overall	potential	pac	sho	pas	dri	def	phy
Cristiano Ronaldo	Real Madrid CF	32	Spanish Primera División	185	80	Portugal	95500000	565000	195800000	94	94	90	93	82	90	33	80
L. Messi	FC Barcelona	30	Spanish Primera División	170	72	Argentina	105000000	565000	215300000	93	93	89	90	86	96	26	61
Neymar	Paris Saint-Germain	25	French Ligue 1	175	68	Brazil	123000000	280000	236800000	92	94	92	84	79	95	30	60
L. Suárez	FC Barcelona	30	Spanish Primera División	182	86	Uruguay	97000000	510000	198900000	92	92	82	90	79	87	42	81
M. Neuer	FC Bayern Munich	31	German Bundesliga	193	92	Germany	61000000	230000	100700000	92	92	91	90	95	89	60	91
R. Lewandowski	FC Bayern Munich	28	German Bundesliga	185	79	Poland	92000000	355000	151800000	91	91	81	88	75	86	38	82
De Gea	Manchester United	26	English Premier League	193	76	Spain	64500000	215000	124200000	90	92	90	85	87	90	58	86
E. Hazard	Chelsea	26	English Premier League	173	76	Belgium	90500000	295000	174200000	90	91	90	82	84	92	32	66
T. Kroos	Real Madrid CF	27	Spanish Primera División	182	78	Germany	79000000	340000	162000000	90	90	56	81	89	81	73	70
G. Higuaín	Juventus	29	Italian Serie A	184	87	Argentina	77000000	275000	127100000	90	90	79	87	70	83	25	74
Sergio Ramos	Real Madrid CF	31	Spanish Primera División	183	75	Spain	52000000	310000	106600000	90	90	76	63	71	71	88	83
K. De Bruyne	Manchester City	26	English Premier League	181	68	Belgium	83000000	285000	159800000	89	92	75	84	88	85	45	75
T. Courtois	Chelsea	25	English Premier League	199	94	Belgium	59000000	190000	113600000	89	92	85	91	69	88	49	86
A. Sánchez	Arsenal	28	English Premier League	169	62	Chile	67500000	265000	124900000	89	89	86	84	80	89	40	78
L. Modrić	Real Madrid CF	31	Spanish Primera División	174	65	Croatia	57000000	340000	116900000	89	89	73	75	86	89	72	65
G. Bale	Real Madrid CF	27	Spanish Primera División	183	74	Wales	69500000	370000	142500000	89	89	94	87	84	85	57	76
S. Agüero	Manchester City	29	English Premier League	173	70	Argentina	66500000	325000	123000000	89	89	87	88	75	89	23	72
G. Chiellini	Juventus	32	Italian Serie A	187	85	Italy	38000000	225000	62700000	89	89	74	46	56	59	90	85
G. Buffon	Juventus	39	Italian Serie A	191	94	Italy	4500000	110000	7400000	89	89	89	88	74	84	46	90
P. Dybala	Juventus	23	Italian Serie A	177	73	Argentina	79000000	215000	136300000	88	93	86	85	81	91	24	67

Main use case

Is a particular player
overvalued or undervalued?

Results

Player Value Prediction Home

One-Click Player Value Prediction

shot_power

94

heading_accuracy

88

finishing

94

ball_control

93

overall

94

Submit

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Player Value Prediction Home

Predicted Player Value

94

SHOT_POWER

88

HEADING_ACCURACY

94

FINISHING

93

BALL_CONTROL

94

OVERALL

97,172,732.4

PREDICTED PLAYER VALUE

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Value in the game
95,500,000



Player is
undervalued