Agent Salary Prediction



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Process

Data Collection
Spotrac & Basketball References API

Data Cleaning / Exploration

Modeling
Linear Regression / RFR / XGBR

InterpretationInsight / Future Ideas

Average Annual Value



CONTRACT:

4 yr(s) / \$153,312,846

AVG. SALARY:

\$38,328,212

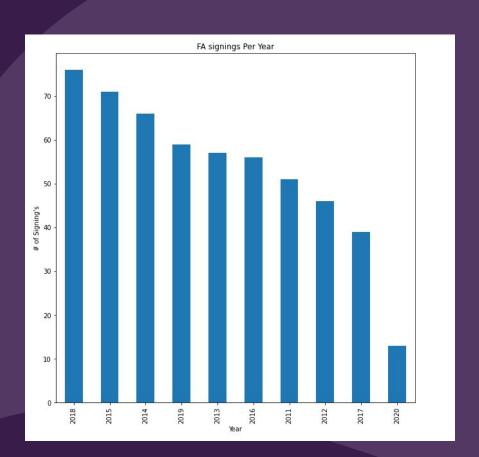


CONTRACT:

1 yr(s) / \$335,366

AVG. SALARY:

\$335,366



Total • 573





AAV -	1	-1.00
value_over_replacement_player	0.68	
points -	0.63	
box_plus_minus -	0.62	
field_goals -	0.61	- 0.75
player_efficiency_rating -	0.6	
free_throw_attempts -	0.59	
free_throws	0.59	
field_goal_attempts -	0.58	- 0.50
turnovers -	0.55	
two_pointers -	0.53	
usage_percentage -	0.51	
two_point_attempts -	0.49	- 0.25
games_started =	0.45	0.23
assists -	0.45	
defensive_rebounds -	0.44	
minutes_played -	0.44	- 0.00
steals -	0.4	- 0.00
three_pointers -	0.39	
three_point_attempts -	0.39	
total_rebounds -	0.38	
true_shooting_percentage -	0.33	0.25
Contract_Begin -	0.31	
blocks -	0.26	
personal_fouls -	0.23	
field_goal_percentage -	0.22	0.50
offensive_rebounds -	0.16	
three_point_percentage -	0.14	
games_played -	0.14	
weight -	0.092	0.75
free_throw_percentage -	0.087	
lost_ball_turnovers -		

net_plus_minus -

Models



Linear Regression

R2: 0.5314062274347852 RMSE: 6.289695948867414 MSE: 39.560275129199155



Random Forest Regression

R2: 0.5738652632565411 RMSE: 5.997977939300073 MSE: 35.97573936033035

Player	Actual	Predicted	Player	Actual	Predicted
	39.9M	21.7M		35.5M	16.8M
	35.5M	17.5M		39.9M	24M
Uko	35.2M	18.6M	UNG	35.2M	19.5M

Player	Actual	Predicted	Player	Actual	Predicted
	5.4M	20.1M		3M	21.1M
	2.6M	16.3M		7.3M	22.5M
	4.1M	15.2M		5.4M	20.1M

THANKS

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