



Talent Valuation

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Situation, Problem, and Model

Situation	Successful pairing of guard Jamal Murray and center Nikola Jokic leads to 2nd and 3rd in the Western Conference in the last 2 years		
Problem	Want a final championship, but the salary cap limits the choices to fill the team vacancies on forward positions		
Most Correlated with AAV	Deal Year	Age	3 Point Attempt Rate
Predictive Model	Train/Test = 7/3	Multivariate Linear Regression using LASSO;	$R^2 = 0.765$



Model Summary

Significant Predictors & their Coefficients:

(Intercept)	1.228923e+09
Deal_Year	-6.062005e+05
Age	-3.549166e+04
G	-1.256735e+05
GS	2.048672e+04
MP	.
FG	.
FGA	1.428391e+04
FG.	.
X3P	1.754752e+04
X3PA	.
X3P.	-1.298366e+06
eFG.	.
FT	.
FTA	.
FT.	.
ORB	.
DRB	-2.746186e+03
TRB	.
AST	6.206511e+03
STL	.
BLK	.
TOV	-1.756029e+04
PF	-1.049853e+04
PTS	.
X3PAr	-1.062662e+06
FTr	-4.542440e+05
USG.	-3.841536e+04
OWS	.
DWS	1.111473e+06
WS	1.425767e+06
RFA	1.571643e+06

Result - Overpaying/Underpaying Status:

Status <chr>	Count <int>	Percentage <dbl>
Overpaid	71	0.4930556
Underpaid	73	0.5069444

Result - Paid within \$1million of model projection:

AbsErrLess1Mil <chr>	Count <int>	Percentage <dbl>
No	102	0.7083333
Yes	42	0.2916667

Note - Size of test set: 144 players

Sneak Peek - Result dataset

Kelly Oubre Jr.	15000000	10230893.8	-4769106.22	Overpaid	No
Tomas Satoransky	10000000	9569959.2	-430040.75	Overpaid	Yes
Danny Green	15000000	14628122.0	-371878.01	Overpaid	Yes
Al-Farouq Aminu	9720900	11897201.2	2176301.17	Underpaid	No
J.J. Redick	13250000	19727205.0	6477205.02	Underpaid	No



Analysis and Recommendation

- High chance that Jerami Grant will not remain on the Nuggets for \$9M

Candidate Value (\$M/yr)	Predicted	Previous	Difference	Performance
David Bowie	10.813	7	Underpaid 3.813	0.526 pt/min
Mike Meyers	12.263	15	Overpaid 2.737	0.535 pt/min
Danny Glover	18.436	21.667	Overpaid 3.231	0.632 pt/min