



SECURE AN NBA CONTRACT

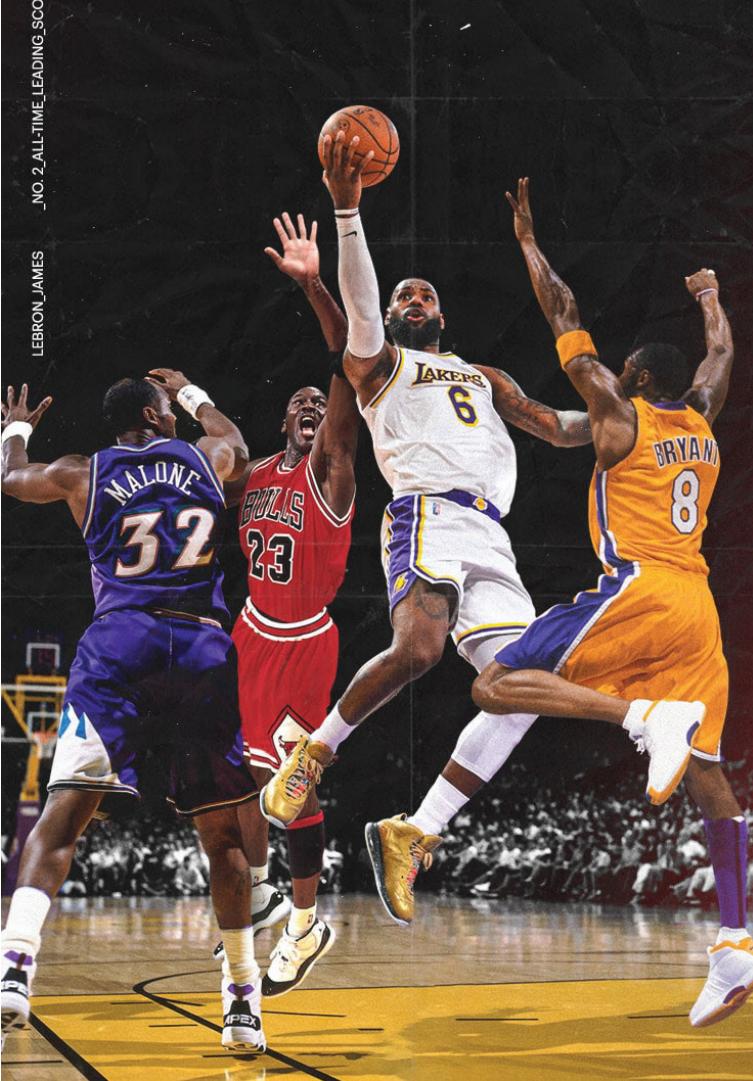
Academy Xi
Capstone Project
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Wednesday 26 July 2023

SUMMARY

Basketball and NBA fan

NBA trainer to develop a training regimen

Predictive model between player stats and salary





BUSINESS PROBLEM

NBA trainer to develop a training regimen

Player stats from 2022-23 season

Focus on skills to maximise next contract salary

DATA



Totals Per Game Per 36 Min Per 100 Poss Advanced Play-by-Play Shooting Adjusted Shooting

Player Totals Share & Export ▾ When table is sorted, hide non-qualifiers for rate stats Glossary Hide Partial Rows

Rk	Player	Pos	Age	Tim	G	GS	MP	FG	FGA	FG%	3P	3PA	3P%	2P	2PA	2P%	eFG%	FT	FTA	FT%	ORB	DRB	TRB	AST	STL	BLK	TOV	PF	PTS
1	Precious Achiuwa	C	23	TOR	55	12	1140	196	404	.485	29	108	.269	167	296	.564	.521	87	124	.702	100	228	328	50	31	30	59	102	508
2	Steven Adams	C	29	MEM	42	42	1133	157	263	.597	0	1	.000	157	262	.599	.597	47	129	.364	214	271	485	97	36	46	79	98	361
3	Bam Adebayo	C	25	MIA	75	75	2598	602	1114	.540	1	12	.083	601	1102	.545	.541	324	402	.806	184	504	688	240	88	61	187	208	1529
4	Ocha Abgeji	SG	22	UTA	59	22	1209	165	386	.427	81	228	.355	84	158	.532	.532	56	69	.812	43	78	121	67	16	15	41	99	467
5	Santi Aldama	PF	22	MEM	77	20	1682	247	525	.470	94	266	.353	153	259	.591	.560	108	144	.750	85	286	371	97	45	48	60	143	696
6	Nickel Alexander-Walker	SG	24	TOT	59	3	884	131	295	.444	61	159	.384	70	136	.515	.547	40	60	.667	15	86	101	108	32	21	55	88	363
6	Nickel Alexander-Walker	SG	24	UTA	36	3	528	83	170	.488	35	87	.402	48	83	.578	.591	27	39	.692	8	51	59	76	24	14	45	58	228
6	Nickel Alexander-Walker	SG	24	MIL	23	0	356	48	125	.384	26	72	.361	22	53	.415	.488	13	21	.619	7	35	42	32	8	7	10	30	135
7	Grayson Allen	SG	27	MIL	72	70	1972	245	557	.440	146	366	.399	99	191	.518	.571	114	128	.905	61	176	237	163	62	14	72	117	750
8	Jarrett Allen	C	24	CLE	68	68	2220	403	626	.644	1	10	.100	402	616	.653	.645	162	221	.733	221	445	666	113	54	84	93	153	969
9	Jose Alvarado	PG	24	NOP	61	10	1310	201	489	.411	83	247	.336	118	242	.488	.496	65	80	.813	28	113	141	186	67	10	81	125	550
10	Kyle Anderson	PF	29	MIN	69	46	1957	252	495	.509	43	105	.410	209	390	.536	.553	100	136	.735	66	302	368	335	78	63	103	146	647

Data engineering
Web scraping



2022/23 NBA Player Salaries

MOST POPULAR



NBA Twitter reacts to Wembly's 27-point second Summer League game: 'And you called him a bust.'

SOCIAL MEDIA

1 day



2023 NBA free agent rankings:
Top players available this summer

BASKETBALL

3 months

SHARE

TWEET

EMAIL

TEAM PAYROLLS

PLAYER SALARIES

2022/23

▼

PLAYER

2022/23

2022/23(*)

1. Stephen Curry

\$48,070,014

2. John Wall

\$47,345,760

3. Russell Westbrook

\$47,080,179

4. LeBron James

\$44,474,988

5. Kevin Durant

\$44,119,845

6. Bradley Beal

\$43,279,250

7. Damian Lillard

\$42,492,492

7. Giannis Antetokounmpo

\$42,492,492

METHOD

FIRST ITERATION

Combine all the data sets
High multicollinearity ~230 pairs

THIRD ITERATION

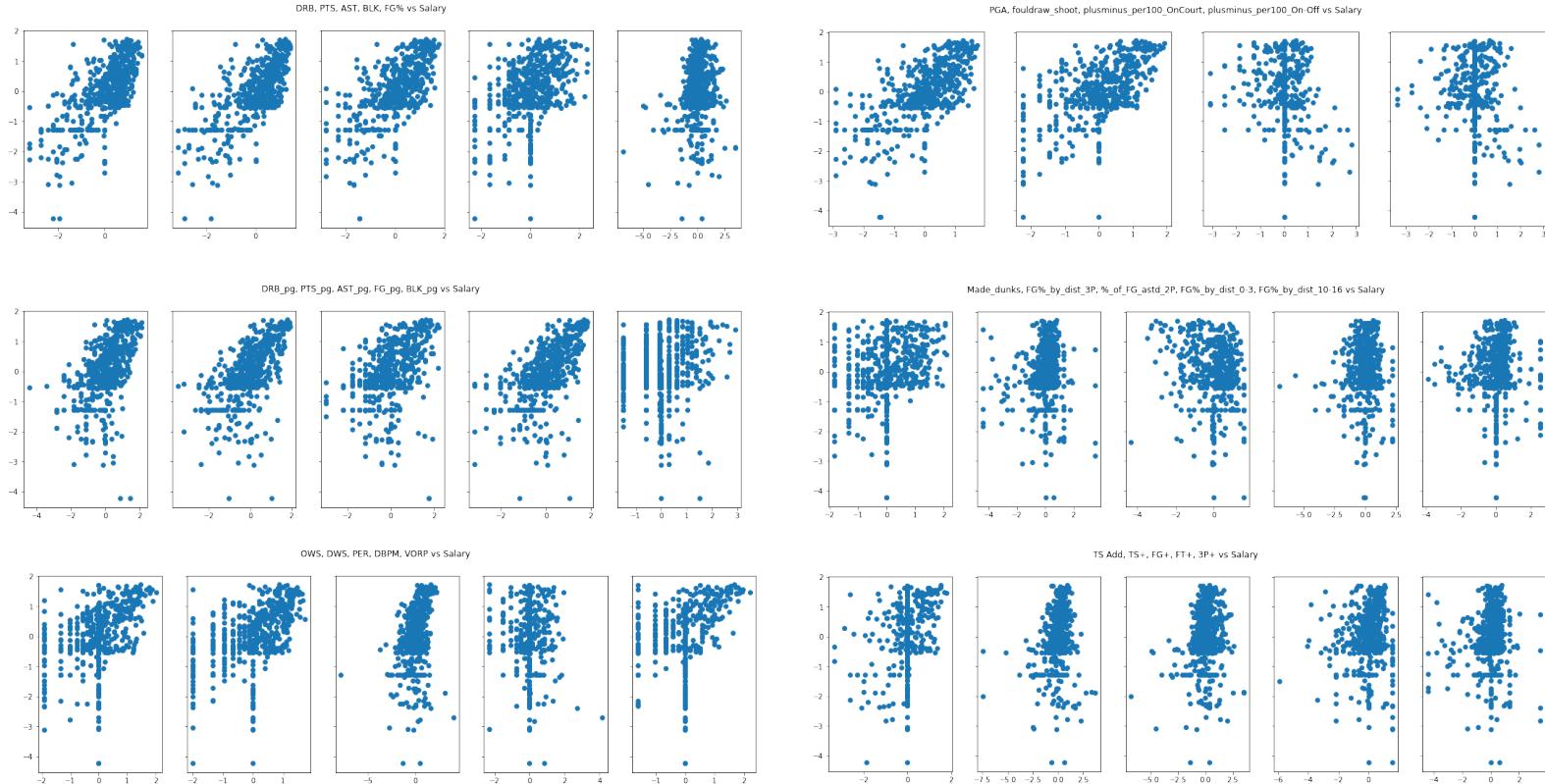
Dramatic overfitting
Adj R-Squared < R-Squared

FINAL ITERATION

Create model for each data set
Previous iteration assumptions
Identify trends



RESULTS



CONCLUSION

Improve 3 point shooting or being an off ball threat

Use playing time to win the game, not to get individual stats

Avoid offensive rebounds and steals. Stay within the team offence and defence structure

FURTHER IMPROVEMENTS

VIF scores

Other regression models

Expanding data set to 5 NBA seasons



THANK YOU

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