NBA Draft (College) Basketball Prediction

418 Final Project

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Web Scraping with python to extract 10 years data from 2009 -2018 via basketball reference. com website

of games, minutes played, points, total rebounds and assists

Cleaning the data and get rid of missing values

Follow the similar steps and do it multiple times and combine all data into one big dataset

https://www.basketball-reference.com/draft/NBA_2018.html

			Round 1				Totals Shooting Per Game									Ad			
Rk	Pk	Tm	Player	College	Yrs	G	MP	PTS	TRB	AST	FG%	3P%	FT%	MP	PTS	TRB	AST	ws	WS/
1	1	PHO	<u>Deandre Ayton</u>	University of Arizona	1	71	2183	1159	729	125	.585	.000	.746	30.7	16.3	10.3	1.8	5.8	.1
2	2	SAC	<u>Marvin Bagley</u>	<u>Duke University</u>	1	62	1567	923	471	62	.504	.313	.691	25.3	14.9	7.6	1.0	3.6	.1
3	<u>3</u>	<u>ATL</u>	Luka Doncic		1	72	2318	1526	563	429	.427	.327	.713	32.2	21.2	7.8	6.0	4.9	.1

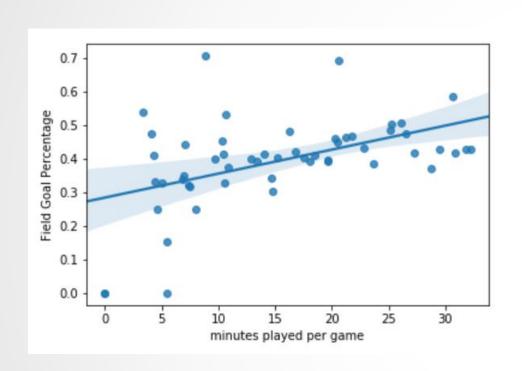
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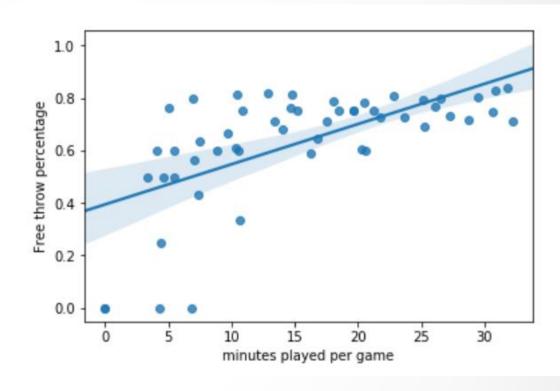
| Draft Years | Draft Years | Draft Years | Draft History | Dr

Structured Dataset

Player	College	Yrs	G	MP	PTS	TRB	AST	 3 P %	FT%	MP	PTS	TRB	AST	WS	WS/48	BPM	VORP
Deandre Ayton	University of Arizona	1	71	2183	1159	729	125	 .000	.746	30.7	16.3	10.3	1.8	5.8	.128	0.2	1.2
Marvin Bagley	Duke University	1	62	1567	923	471	62	 .313	.691	25.3	14.9	7.6	1.0	3.6	.110	-1.8	0.1
Luka Doncic		1	72	2318	1526	563	429	 .327	.713	32.2	21.2	7.8	6.0	4.9	.101	4.1	3.6

Data Exploratory





Proposal

- Use multiple linear regression build a prediction model
- Include players information to extend the analysis
- Based on last 10 years data to build a simulator to predict 2019 NBA draft