

Which NBA team(s) has drafted the most players who went to Duke and were drafted in or before the 2000 draft?

- 3 teams drafted 2 players who meet the criteria: PHO, MIN, and the DAL
- 17 Total players drafted from 1989-2021 in this category
- With 14 teams having at least 1 selection

Have a first name that begins with D and were drafted in an even year draft?

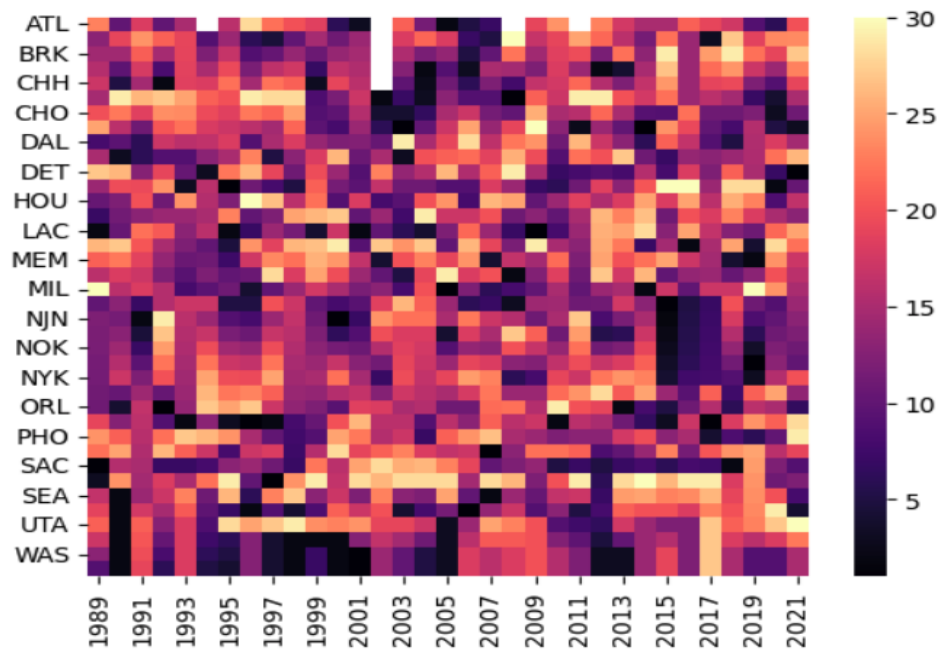
- The 3 teams who meet this criteria: SEA, BOS, MIL with 7 each
- 34 franchises have at least one selection during this timeframe

Describe the relationship between a team's first round pick slot in one year with their first-round pick slot in the subsequent year.

The metrics with the highest correlation to overall pick include:

- Average minutes played: -0.494604
- Points per game: -0.49444
- Average total rebounds: -0.39236

The heatmap below indicates that a high first round selection is typically followed with a lower pick slot the subsequent year.



NBA Teams who have under and over performed the most during this span

Win shares and value over replacement are the most correlated features with Minutes Played

Over performing: CLE, GSW, SEA

Under performing: NOK, NOP, CHO

	minutes_played	win_shares	value_over_replacement		minutes_played	win_shares	value_over_replacement
team				team			
CLE	543158.0	1244.0	366.6	NOK	7304.0	8.1	-1.1
GSW	563987.0	1285.4	353.1	NOP	29571.0	40.1	7.1
SEA	508284.0	1217.3	344.3	CHO	42024.0	67.2	14.3
MIN	586328.0	1199.8	324.3	BRK	61197.0	134.6	27.2
PHI	574724.0	1170.1	310.1	WSB	163946.0	291.7	44.1
MIL	570320.0	1200.8	297.8	VAN	134087.0	282.9	72.2
ORL	463557.0	1097.7	284.7	CHA	206517.0	420.5	88.0
DEN	506561.0	1132.4	281.0	WAS	317106.0	543.4	103.4
BOS	548382.0	1087.1	274.7	OKC	129038.0	349.2	116.8
PHO	496271.0	1088.3	274.2	DAL	300276.0	559.9	123.1

College Teams with players outperforming expectations the most after entering the NBA

- Kentucky, Duke and UNC have outperformed expectations

	minutes_played	win_shares	value_over_replacement
college			
Kentucky	538292.0	1089.0	305.7
Duke	535270.0	1177.6	297.0
UNC	504352.0	1044.2	243.4
UCLA	397511.0	797.9	242.9
Wake Forest	199844.0	634.4	241.2
UConn	366593.0	796.0	226.8
Arizona	419753.0	862.5	218.0
Georgia Tech	280831.0	624.5	150.8
Florida	222518.0	530.6	148.2
Texas	244750.0	601.0	147.1

- If given the opportunity to expand this study, additional research would include exploring the types of relationships across the entire data set to understand which features are most closely correlated, then split that data into training and testing sets. Train and Predict the testing data and follow up with evaluating the model by calculating the residual sum of squares and explained variance score(R^2)