

NBA Rookie Predictions

Parker Dixon



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Drafting the Right Player

What makes a good NBA player?

- Physical Traits
- Mental Makeup
- Skill

Player	Height	Points	Assists	Rebounds	2P%	3P%	FT%	SOS	Accolades
NCAA									
Player 1	6' 2"	28.9	4.3	3.4	.491	.396	.894	5.76	National POY
Player 2	6' 3"	28.6	5.6	4.4	.519	.387	.876	-3.33	Conference POY

Data Collection

2016 NBA Draft

« 2015 NBA Draft 2017 NBA Draft »

Date: Thursday, June 23, 2016
 Location: Brooklyn, New York
 Number of Picks: 60 (54 played in NBA)

[More info ▾](#)

Draft History Draft Years ▾

Click the Team for players drafted by that franchise.
 Click the College for players drafted from that college.
 Click the Pk for players drafted in that slot.

» Visit our [Draft Finder](#) tool to search all drafts from 1947 until 2017 using custom criteria.

60 Selections Stats shown are for the player's NBA career Share & more ▾ Glossary

Rk	Pk	Tm	Player	College	Yrs	G	MP	PTS	TRB	AST	FG%	3P%	FT%	MP	PTS	TRB	AST	WS	WS/48	BPM	VORP
1	1	PHL	Ben Simmons	Louisiana State University	1	81	2732	1279	659	661	.545	.000	.560	33.7	15.8	8.1	8.2	9.2	.162	4.6	4.6
2	2	LAL	Brandon Ingram	Duke University	2	138	4254	1689	630	396	.438	.329	.655	30.8	12.2	4.6	2.9	2.5	.028	-2.6	-0.7
3	3	BOS	Jaylen Brown	University of California	2	148	3493	1532	567	178	.461	.379	.658	23.6	10.4	3.8	1.2	6.0	.082	-1.6	0.3
4	4	PHO	Dragon Bender		2	125	2643	677	464	153	.378	.345	.694	21.1	5.4	3.7	1.2	-0.3	-0.005	-3.0	-0.7
5	5	MIN	Kris Dunn	Providence College	2	130	2858	992	387	498	.413	.309	.690	22.0	7.6	3.0	3.8	1.0	.016	-1.1	0.7
6	6	NOP	Buddy Hield	University of Oklahoma	2	162	3912	1945	576	276	.437	.412	.860	24.1	12.0	3.6	1.7	4.1	.050	-1.4	0.6
7	7	DEN	Jamal Murray	University of Kentucky	2	163	4329	2163	511	444	.432	.359	.898	26.6	13.3	3.1	2.7	6.9	.076	-1.2	0.9



Ben Simmons
 Benjamin David Simmons
 (Fresh Prince, Penny, Thabo)
 Position: Forward
 6-10, 225lb
 Hometown: Philadelphia, PA
 High School: Lower Merion HS

Brandon Ingram
 Brandon Xavier Ingram
 (Tiny Dog)
 Position: Guard
 6-9, 190lb (206cm, 86kg)
 Hometown: Los Angeles, CA
 High School: Bishop Miege HS

Jaylen Brown
 Jaylen Matthew Brown
 Kristopher Brown
 Position: Forward
 6-7, 225lb
 Hometown: Boston, MA
 High School: Boston Latin School

Kris Dunn
 Kris Dunn
 Kristoffer Dunn
 Position: Guard
 6-3, 205lb (190cm, 92kg)
 Hometown: New London, CT
 High School: New London HS

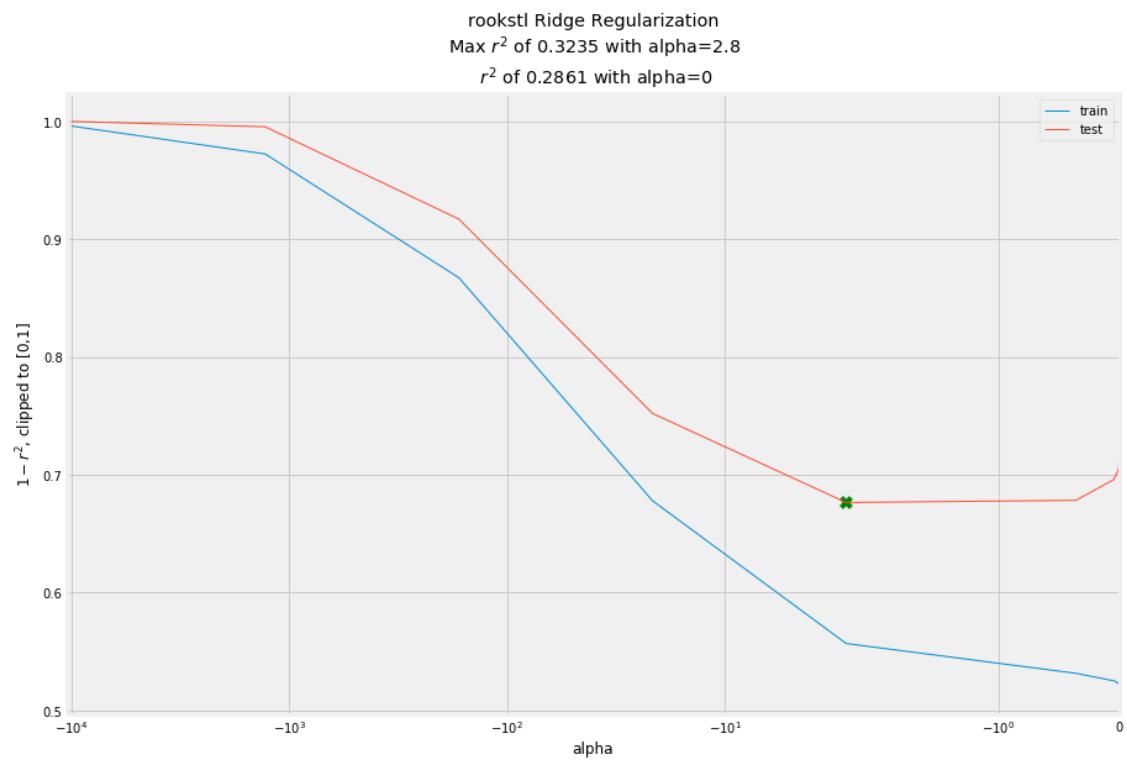
[More player info ▾](#)

	2017-18	Career		2017-18	Career			2017-18	Career			2017-18	Career			2017-18	Career		
SUMMARY			SUMMARY			SUMMARY		SUMMARY		SUMMARY		SUMMARY		SUMMARY		SUMMARY		SUMMARY	
G	52	13.4	G	95	12.8	G	95	G	52	G	13.4	G	130	G <td>130</td> <th>G</th> <td>95</td> <th>G</th> <td>12.8</td>	130	G	95	G	12.8
PTS	4.3	PTS	5.1	PTS	5.8	PTS	5.8	PTS	6.0	PTS	6.0	PTS	3.0	PTS	3.8	PTS	4.50	PTS	35.4
TRB	6.0	TRB	5.1	TRB	5.8	TRB	5.8	TRB	4.3	TRB	4.3	TRB	3.0	TRB	3.8	TRB	45.0	TRB	69.3
AST	4.6	AST	4.1	AST	4.1	AST	4.1	AST	3.7	AST	3.7	AST	3.0	AST	3.0	AST	3.0	AST	48.8
FG%	45.0	FG%	45.0	FG%	45.0	FG%	45.0	FG%	45.0	FG%	45.0	FG%	45.0	FG%	45.0	FG%	45.0	FG%	45.0
FT%	35.4	FT%	35.4	FT%	35.4	FT%	35.4	FT%	35.4	FT%	35.4	FT%	35.4	FT%	35.4	FT%	35.4	FT%	35.4
eFG%	48.8	eFG%	48.8	eFG%	48.8	eFG%	48.8	eFG%	48.8	eFG%	48.8	eFG%	48.8	eFG%	48.8	eFG%	48.8	eFG%	48.8
PER	20.7	PER	20.7	PER	20.7	PER	20.7	PER	20.7	PER	20.7	PER	20.7	PER	20.7	PER	20.7	PER	20.7
WS	10.8	WS	10.8	WS	10.8	WS	10.8	WS	10.8	WS	10.8	WS	10.8	WS	10.8	WS	10.8	WS	10.8
More			More			More		More		More		More		More		More		More	
Career			Career			Career		Career		Career		Career		Career		Career		Career	

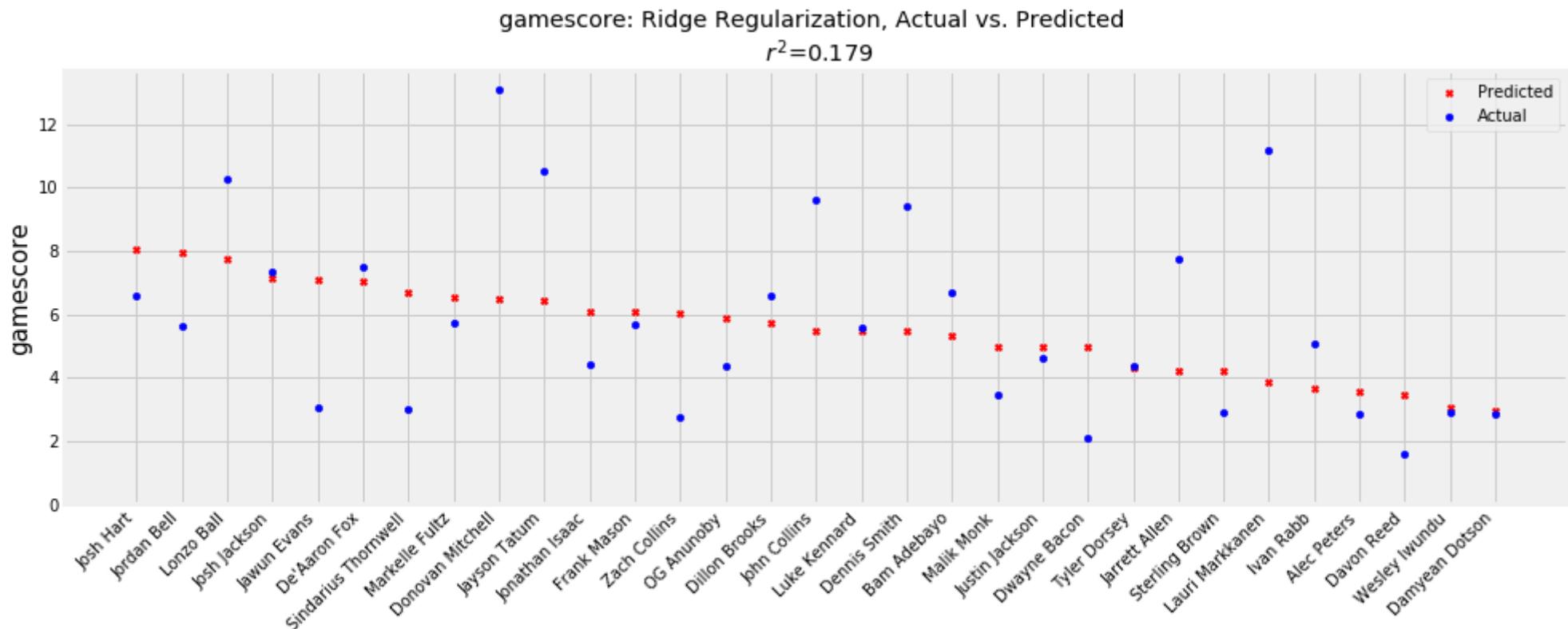
Model Creation

Tested 3 different methods for each model

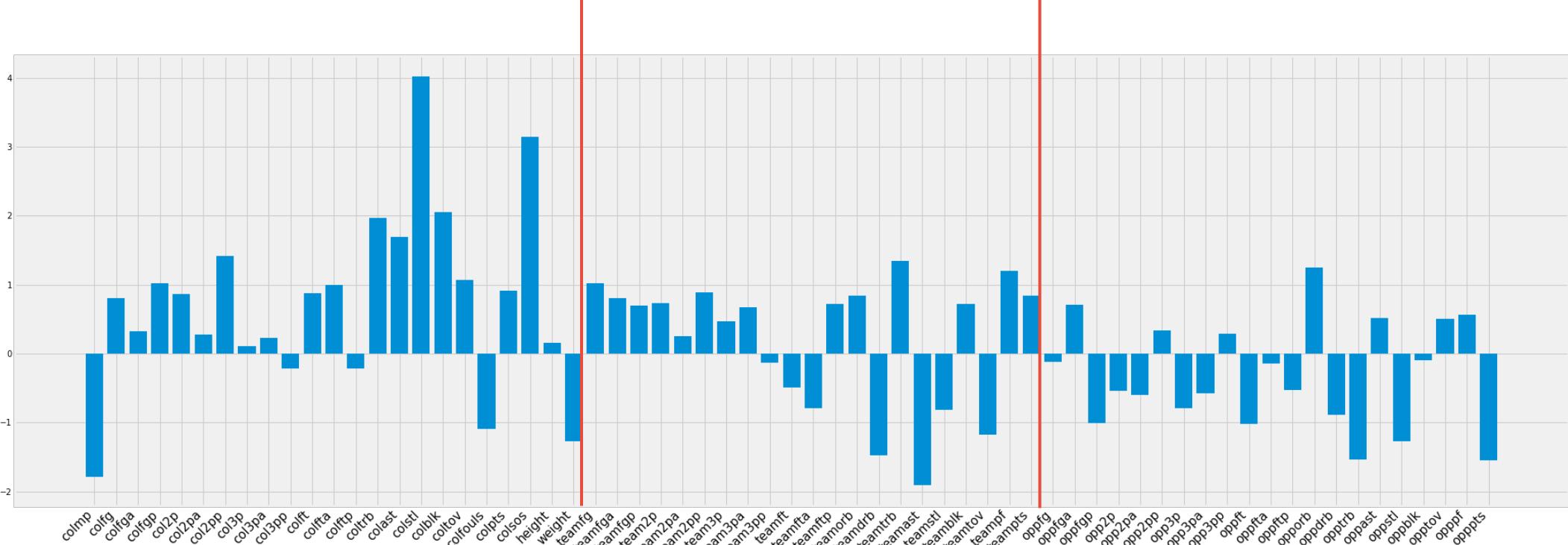
- K-Best Feature Selection
- Ridge Regularization
- Lasso Regularization



Testing Output: 2017 Draft



Gamesscore Coefficients

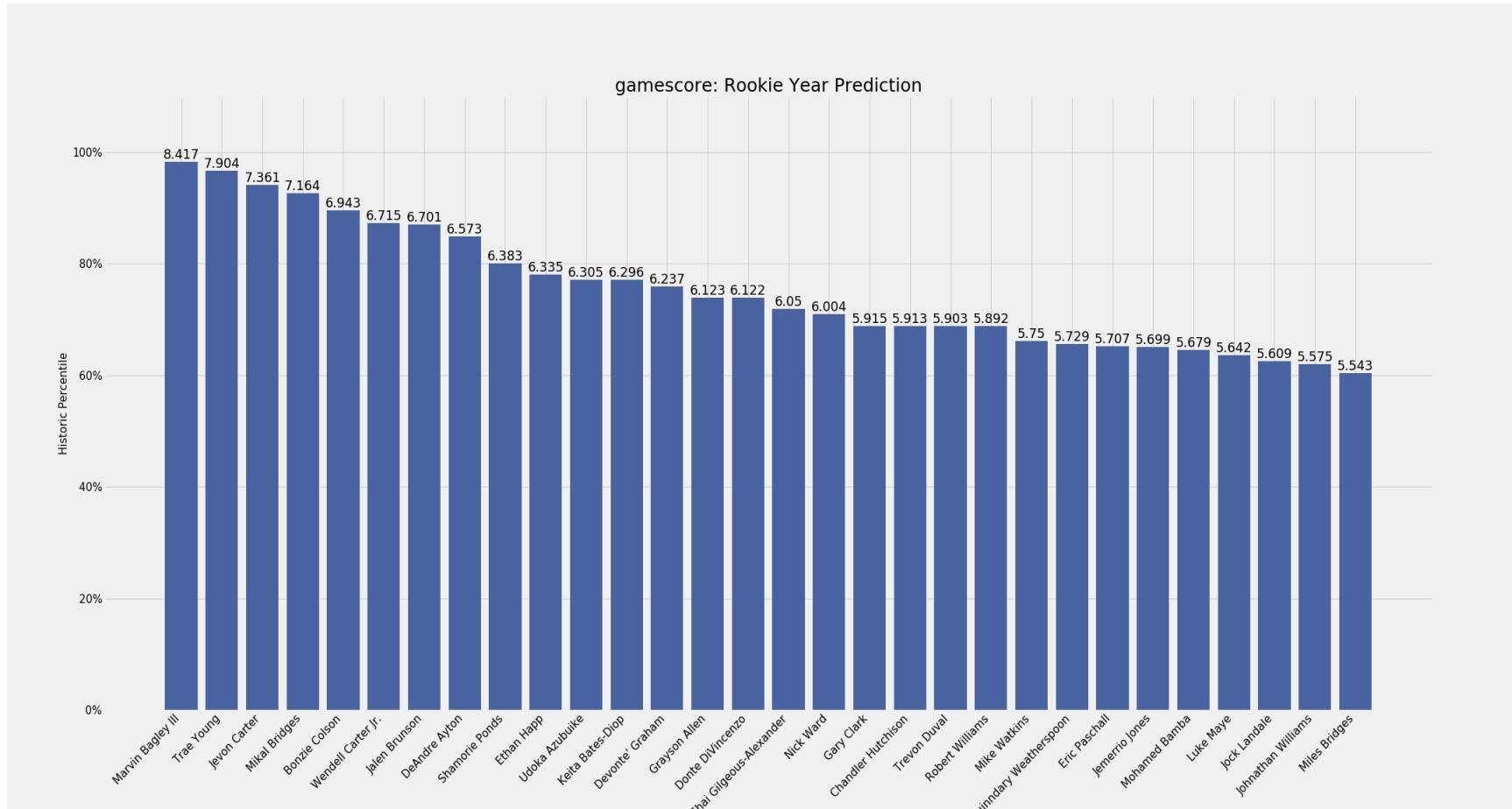


Making Predictions

Rank	Player	School	Gamescore
1	Marvin Bagley III	Duke	8.416843
2	Trae Young	Oklahoma	7.904497
3	Jevon Carter	West Virginia	7.360815
4	Mikal Bridges	Villanova	7.163707
5	Bonzie Colson	Notre Dame	6.943171
6	Wendell Carter Jr.	Duke	6.714601
7	Jalen Brunson	Villanova	6.701194
8	DeAndre Ayton	Arizona	6.572681
9	Shamorie Ponds	St. John's	6.382913
10	Ethan Happ	Wisconsin	6.335034
11	Udoka Azubuike	Kansas	6.304821
12	Keita Bates-Diop	Ohio State	6.295525
13	Devonte' Graham	Kansas	6.23705
14	Grayson Allen	Duke	6.123156
15	Donte DiVincenzo	Villanova	6.122465

Rank	Player	School	Gamescore
16	Shai Gilgeous-Alexander	Kentucky	6.04952
17	Nick Ward	Michigan State	6.003578
18	Gary Clark	Cincinnati	5.915005
19	Chandler Hutchison	Boise State	5.912713
20	Trevon Duval	Duke	5.90291
21	Robert Williams	Texas A&M	5.892416
22	Mike Watkins	Penn State	5.749771
23	Quinndary Weatherspoon	Mississippi State	5.72941
24	Eric Paschall	Villanova	5.707243
25	Jemerrio Jones	New Mexico St.	5.698666
26	Mohamed Bamba	Texas	5.679473
27	Luke Maye	UNC	5.641648
28	Jock Landale	St. Mary's	5.60898
29	Johnathan Williams	Gonzaga	5.574771
30	Miles Bridges	Michigan State	5.543432

2018 Draft Projections



Conclusion

What makes a good NBA player?

- Physical Traits
- Mental Makeup
- Skill

DATA

Player	Height	Points	Assists	Rebounds	2P%	3P%	FT%	SOS	Accolades
<i>NCAA</i>									
Jimmer Fredette	6' 2"	28.9	4.3	3.4	.491	.396	.894	5.76	National POY
Steph Curry	6' 3"	28.6	5.6	4.4	.519	.387	.876	-3.33	Conference POY
<i>NBA Predictions</i>									
Player	Height	Points	Assists	Rebounds	2P%	3P%	FT%	Gamescore	Accolades (Actual)
Jimmer Fredette	6' 2"	11.3	2.9	1.8	.424	.343	.858	6.69	1 x CBA MVP
Steph Curry	6' 3"	12.3	3.5	2.4	.430	.376	.856	8.62	2 x NBA MVP; 2 x NBA Champ

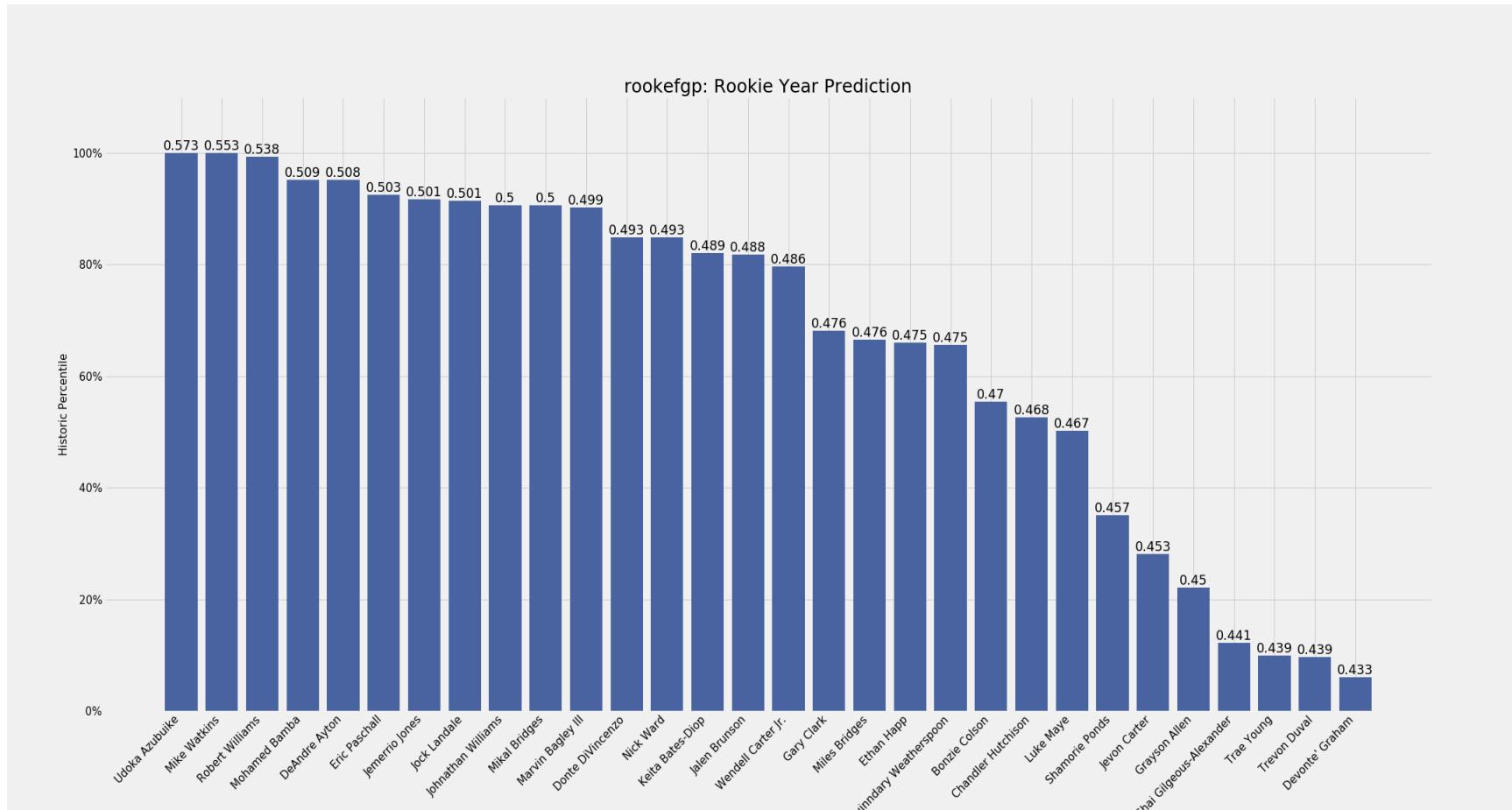
Appendix

Detailed Results: <http://127.0.0.1:5000/>

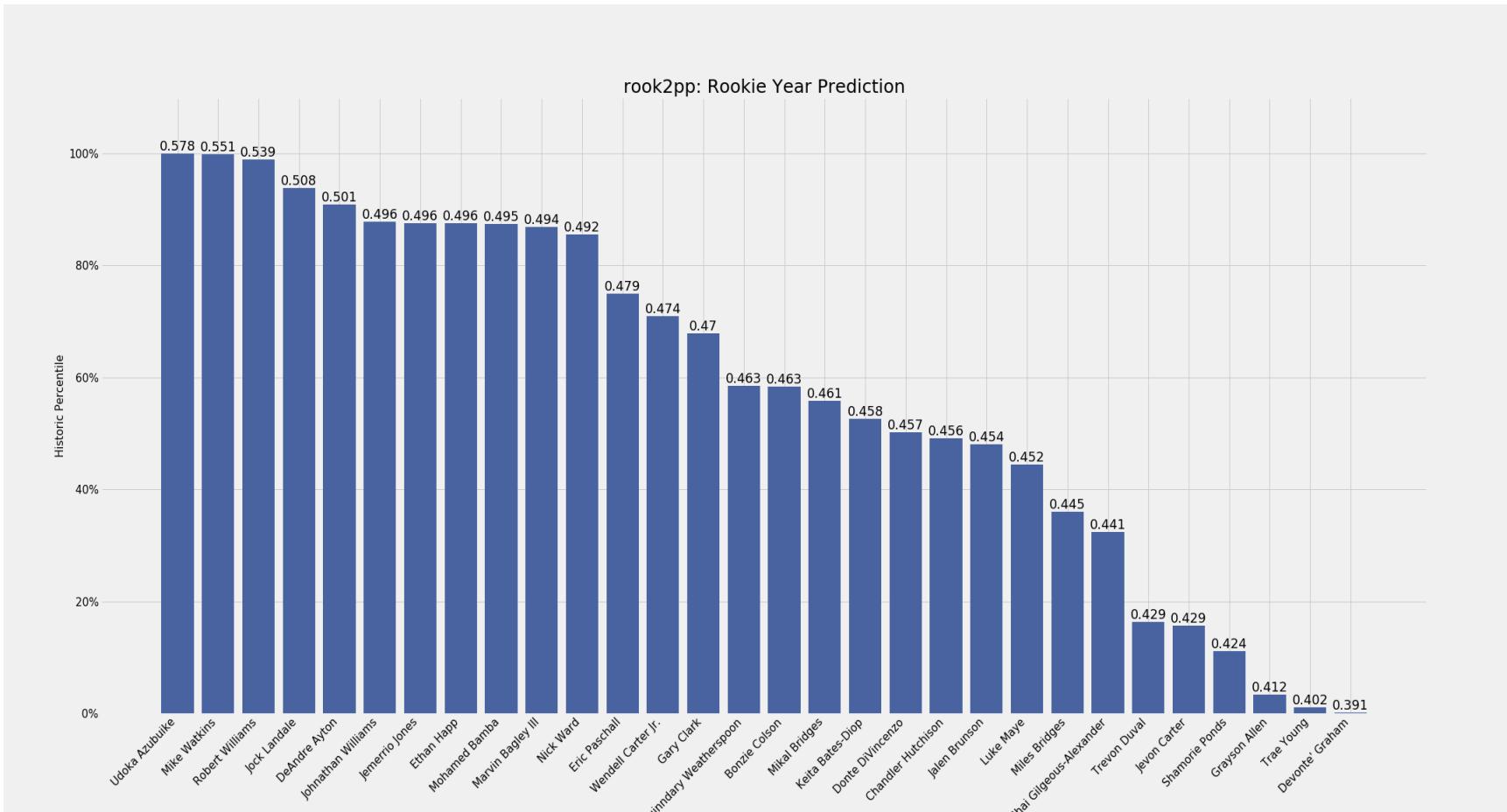
Detailed Results

Statistic	Feature Selection Method	Test R ²	Draft Class Median	Draft Class Max
FG%	Lasso Regularization	0.366207	0.429827	0.510128
3P%	K-Best Features	0.332641	0.261217	0.375978
2P%	K-Best Features	0.194724	0.454221	0.518594
EFG%	K-Best Features	0.311713	0.464231	0.50083
FT%	Ridge Regularization	0.121601	0.721218	0.829804
Rebounds	Ridge Regularization	0.442531	3.093954	6.127933
Assists	Ridge Regularization	0.474369	1.466661	4.017836
Steals	Lasso Regularization	0.342148	0.613367	1.130955
Blocks	Ridge Regularization	0.632730	0.33207	1.109172
Turnovers	Ridge Regularization	0.246314	1.165161	1.960257
Points	Lasso Regularization	0.185473	7.138516	11.837914
Gamescore	Ridge Regularization	0.174213	5.121090	8.931220

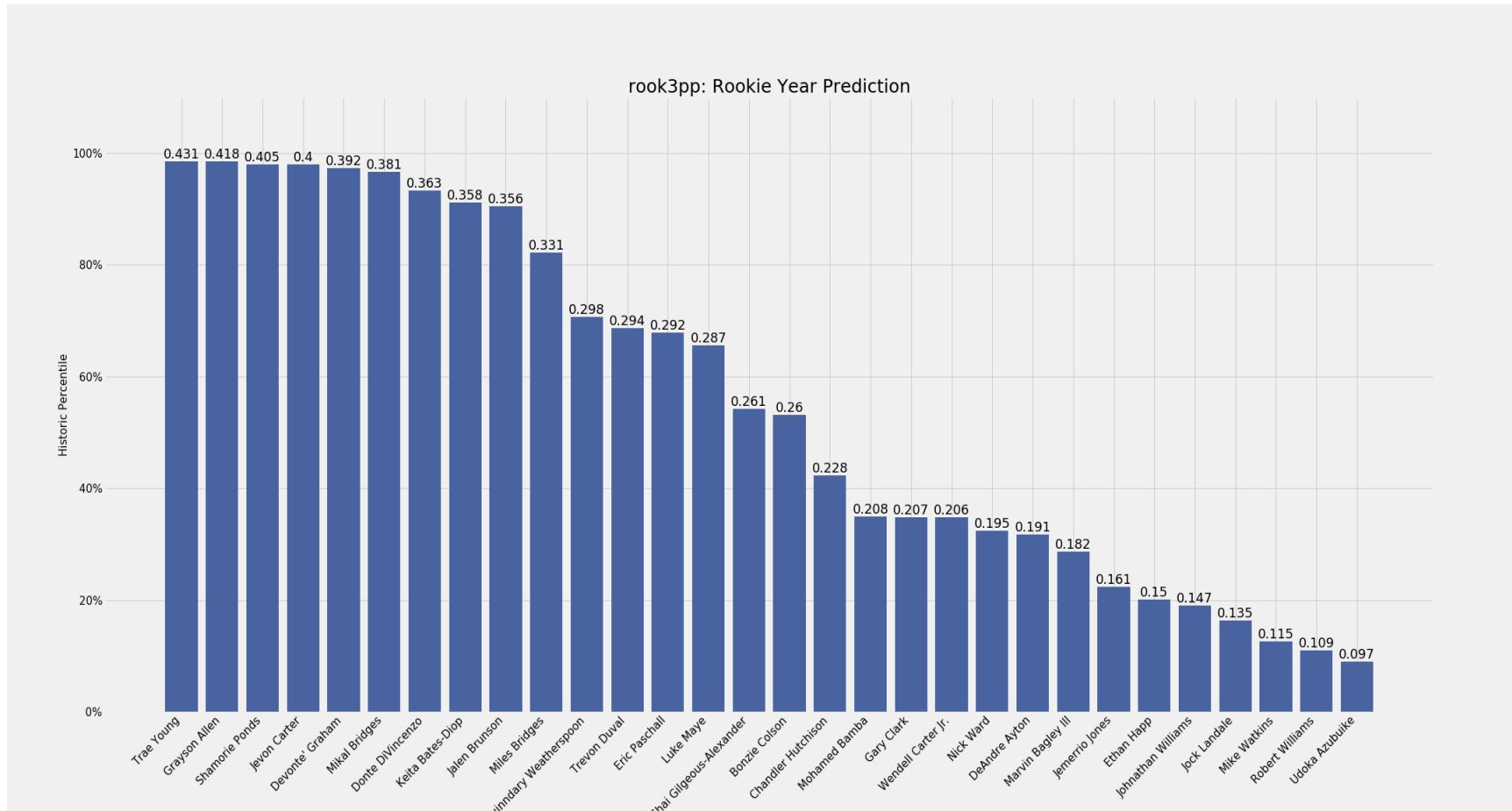
2018 Draft Projections



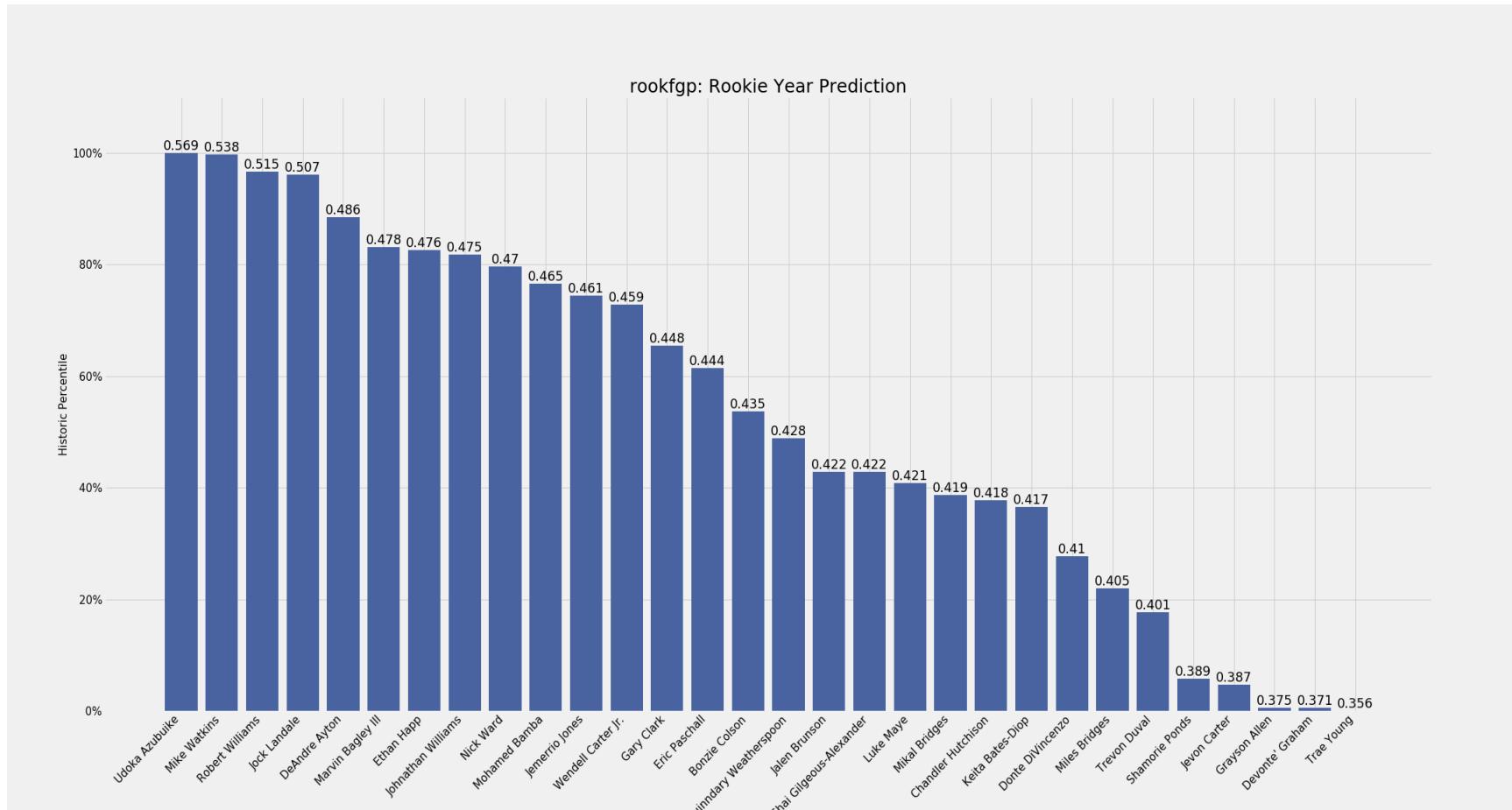
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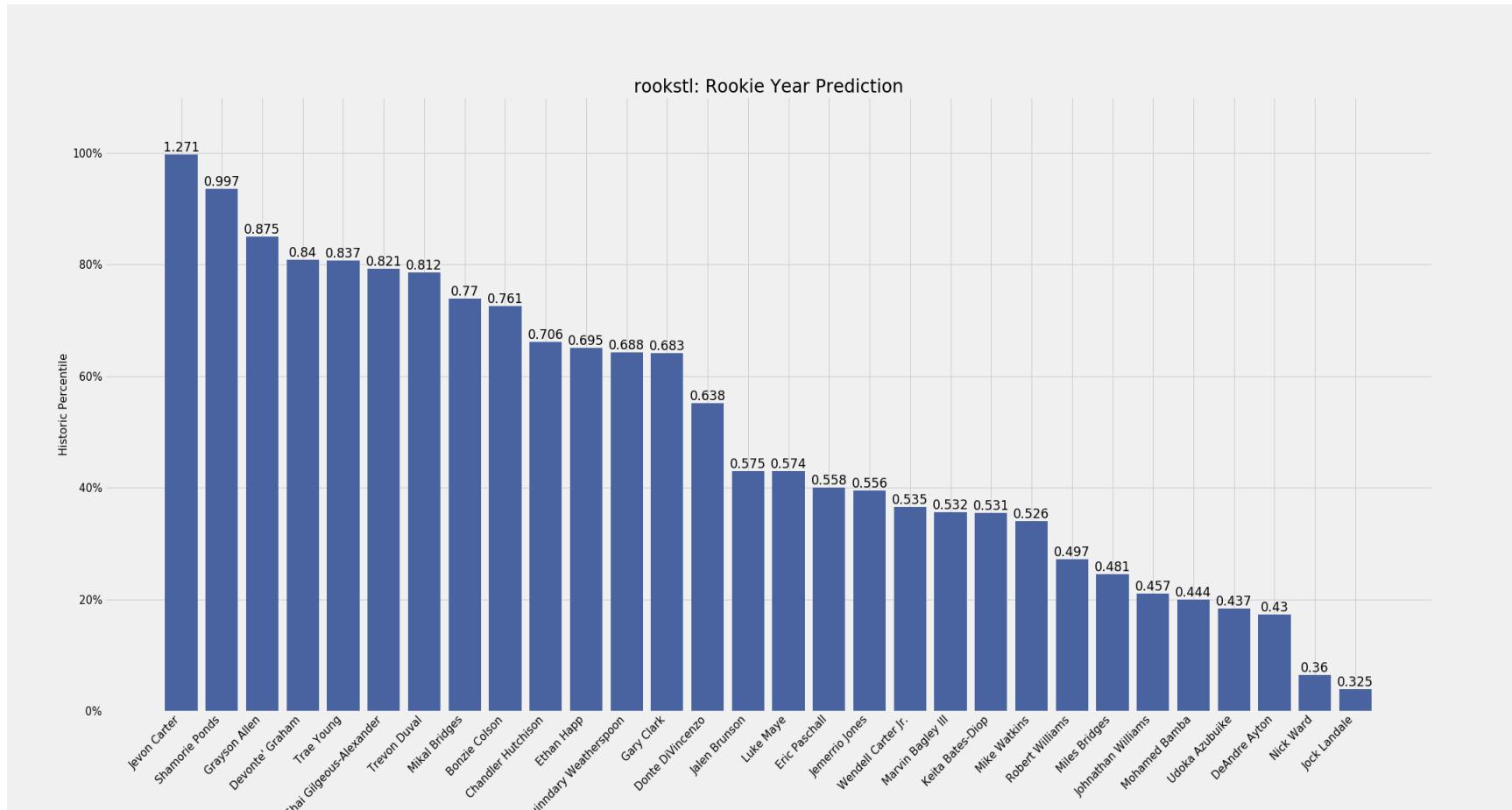
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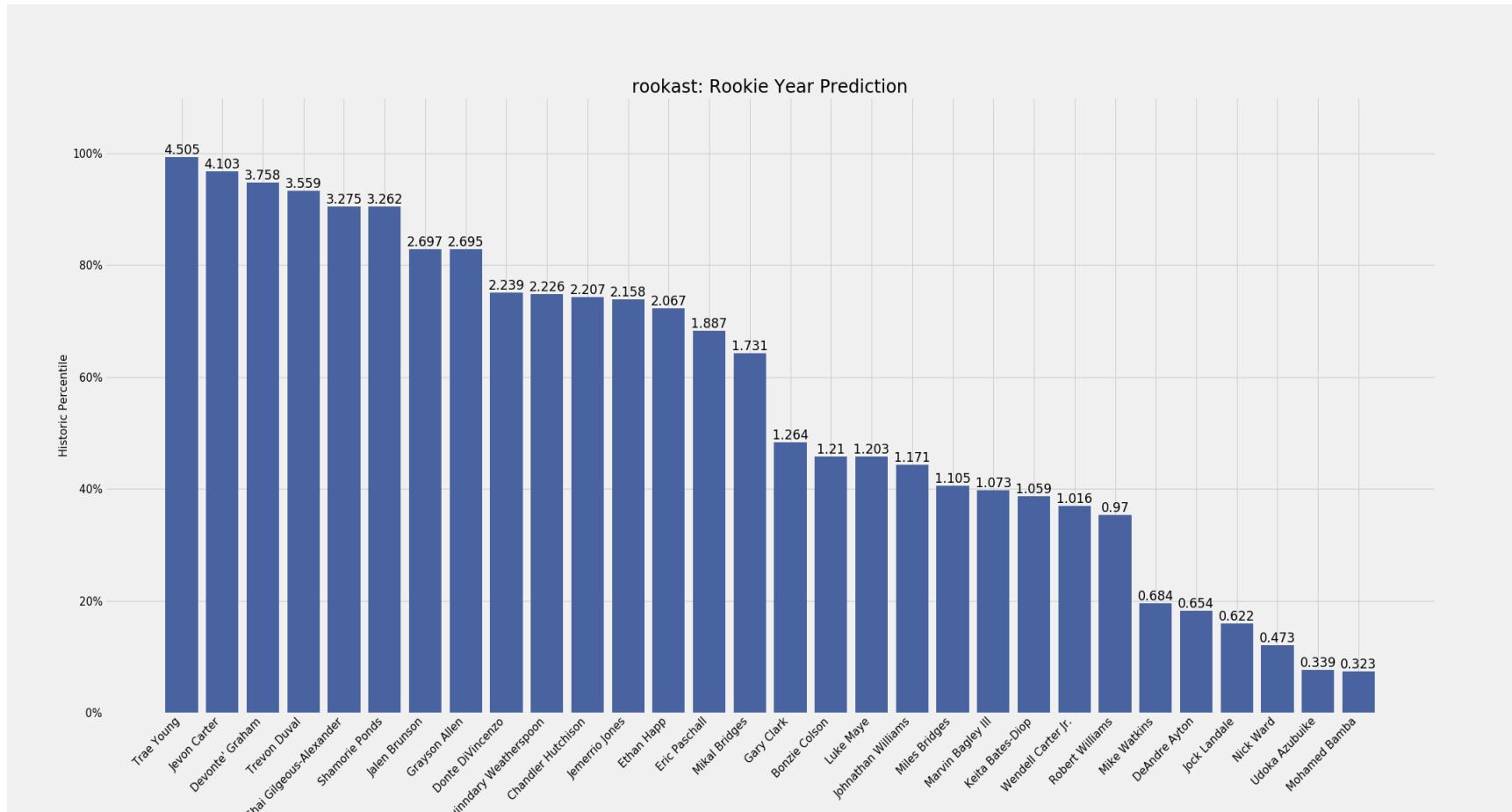
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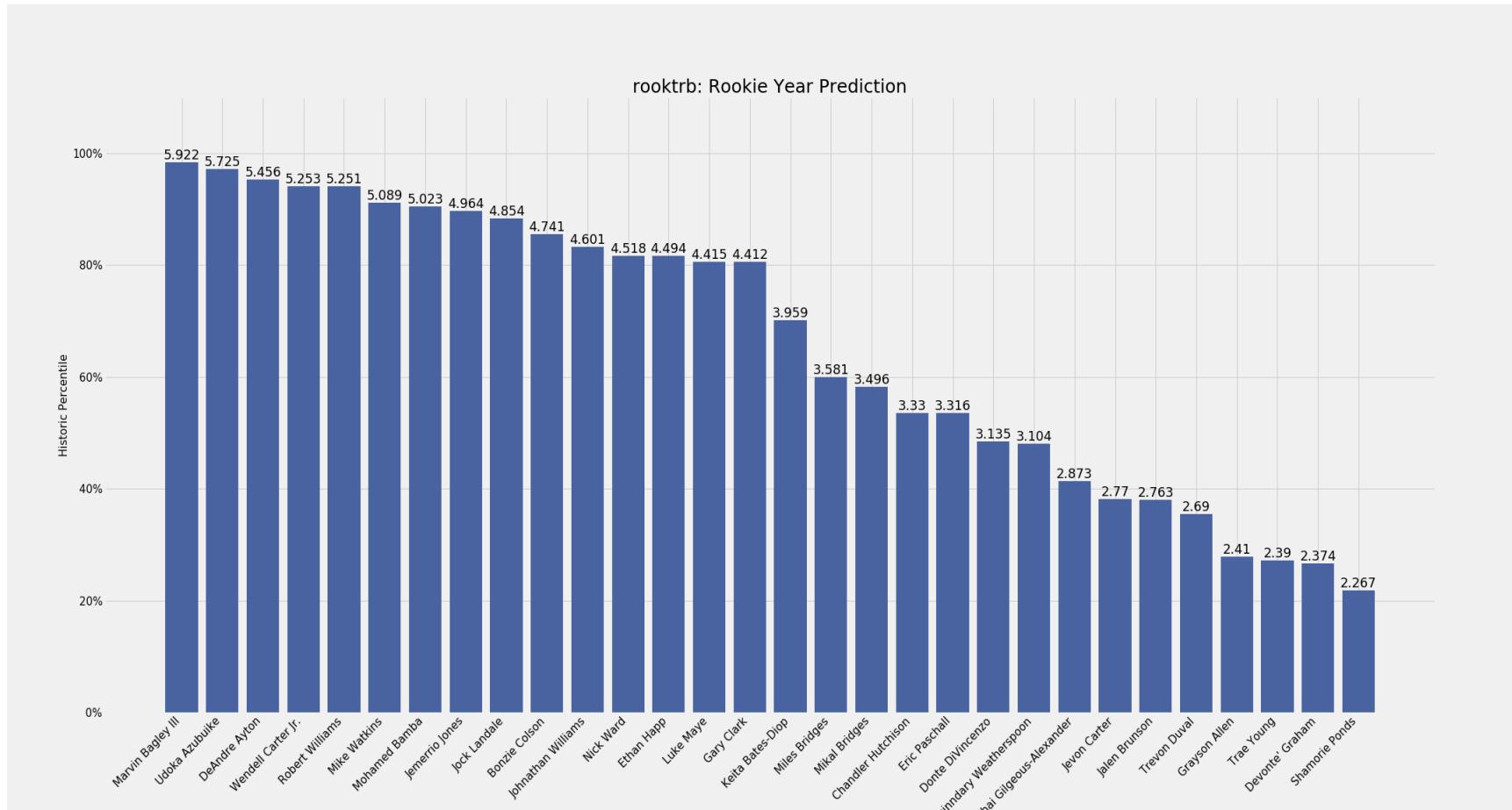
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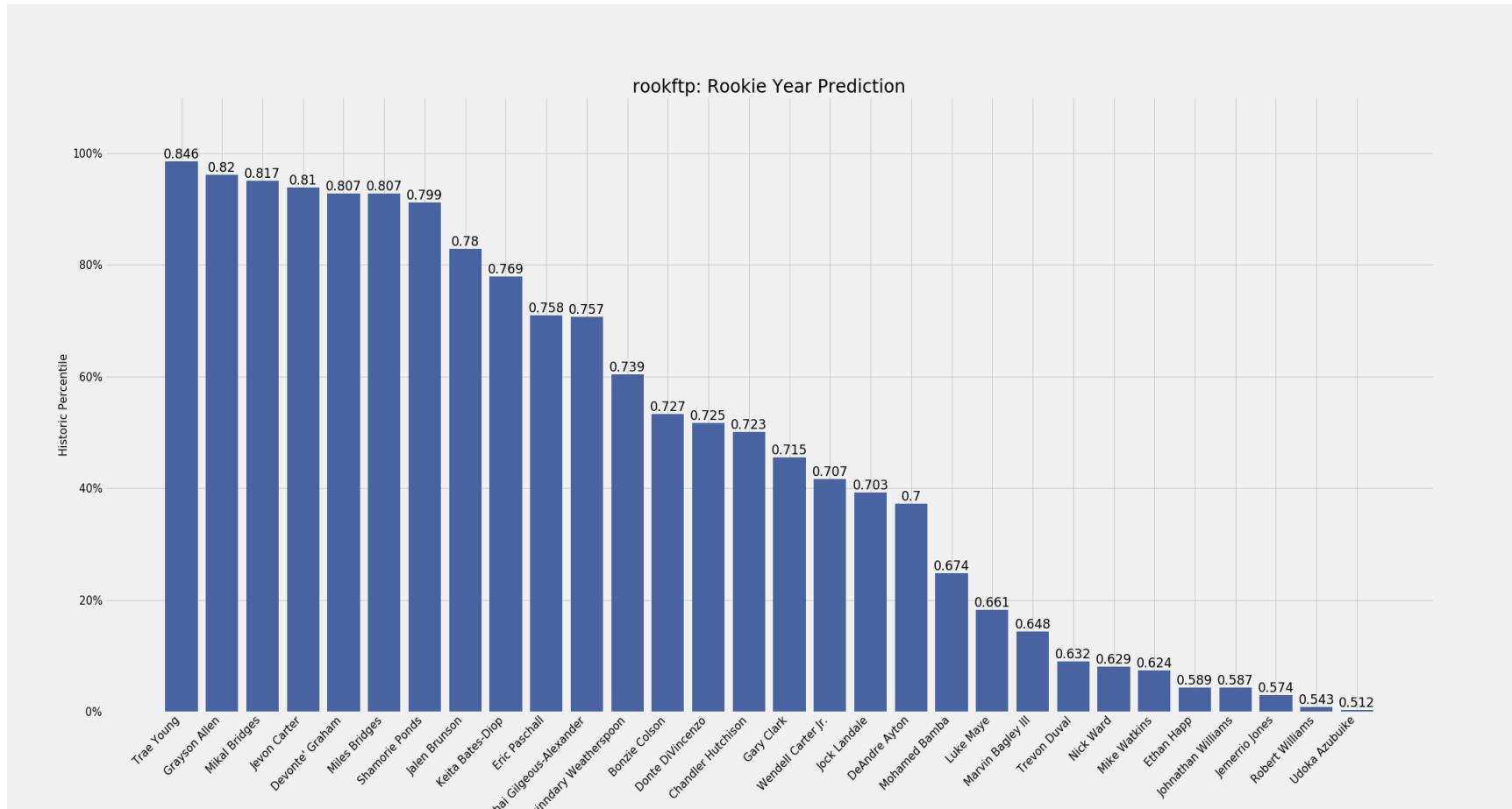
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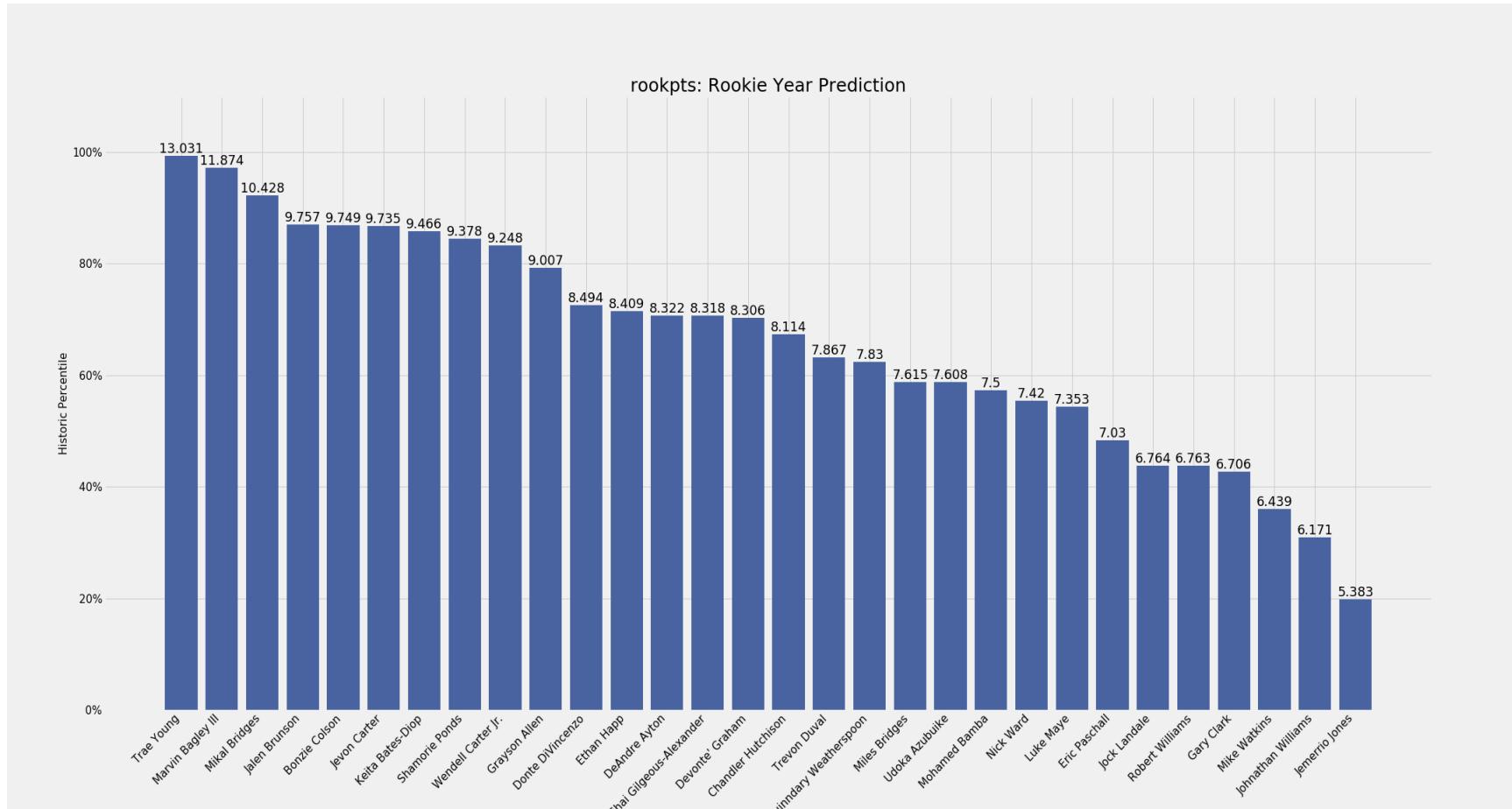
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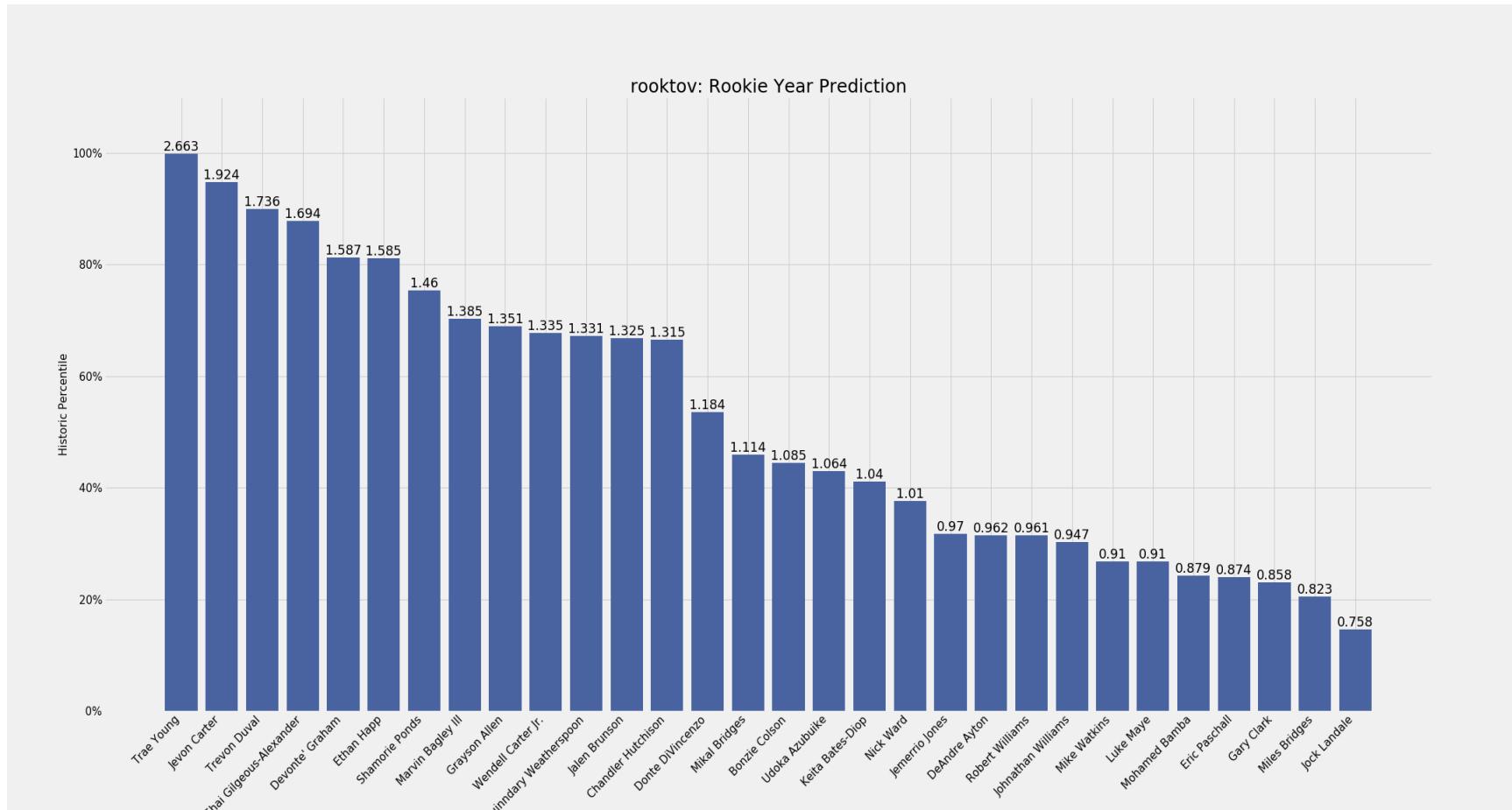
2018 Draft Projections



2018 Draft Projections



2018 Draft Projections



2018 Draft Projections

