

# Masters Tournament Prediction Model & Equipment Analysis

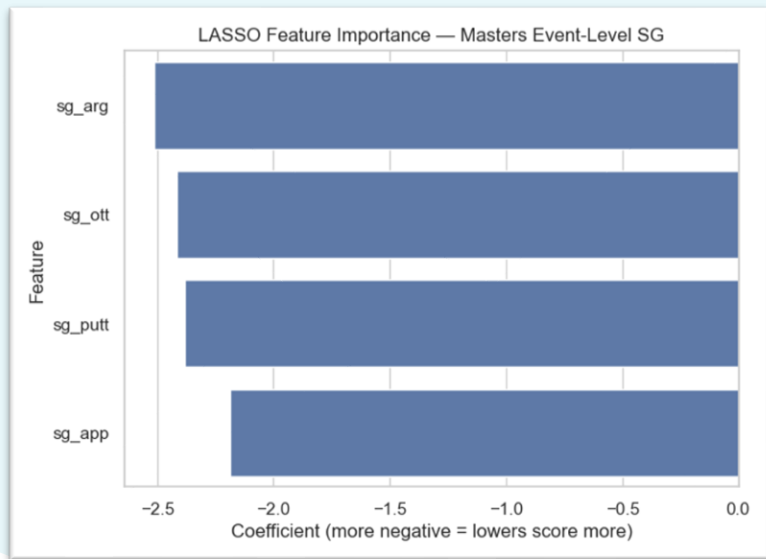
By David Yang



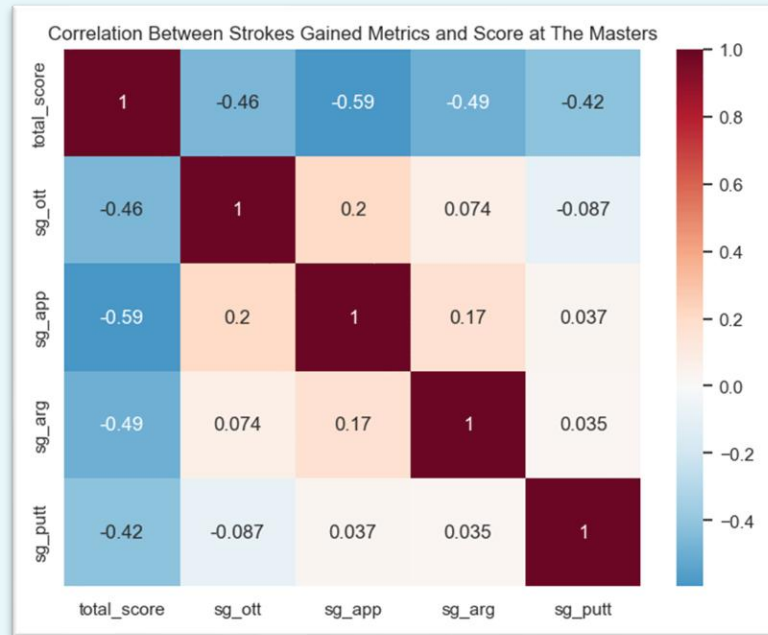
# Data Sources

Dataset	Description	Format	Data Size
DataGolf - Masters Tournament Historical Stats 2021 - 2025	Contains all player statistics (shots gained, score) in past Masters Tournaments	Downloaded each year's file as CSV from website, aggregated and cleaned in Python	453 rows
DataGolf - Official Player Stats: 2025 PGA Tour, DP World, LIV	Contains player statistics across all tours for 2025 season	Scraped from website using BeautifulSoup, removed duplicates across tours, saved as CSV	404 rows
PGAClubTracker - Equipments of Tour Players	Contains latest equipment information for most tour professionals	Scraped all player names, then iterated through all possible url's to scrape bag information	1538 rows

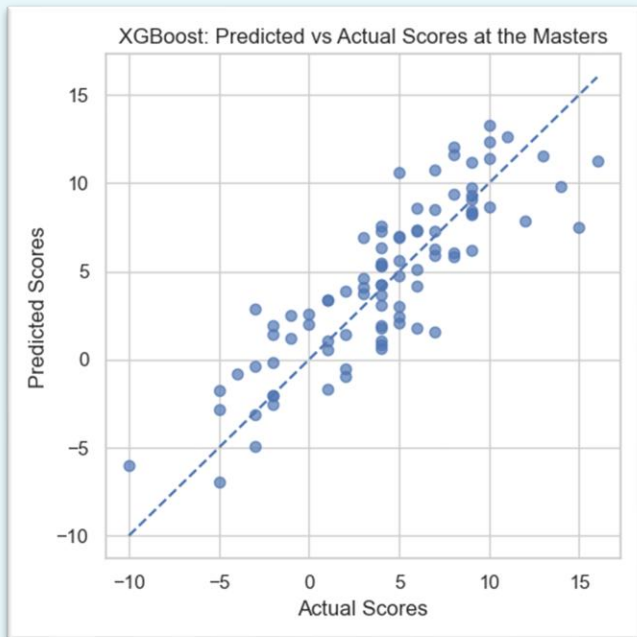
# Which Player Skills Matter the Most?



sg\_arg – shots gained around the greens  
sg\_ott – shots gained off the tee  
sg\_putt – shots gained in putting  
sg\_app – shots gained in approach



# Who is Going to Win the 2026 Masters?

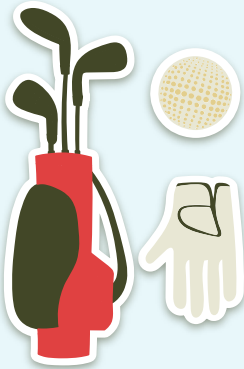


## LASSO Linear Regression

	player	PredictedScore
0	Scottie Scheffler	-4.594045
1	Rory McIlroy	-2.325055
2	Tommy Fleetwood	-1.982362
200	Jon Rahm	-1.860060
3	Russell Henley	-1.298997
201	Bryson DeChambeau	-0.651103
202	Joaquin Niemann	-0.577169
5	Ben Griffin	-0.427771
4	J.J. Spaun	-0.408091
7	Justin Thomas	-0.398169

## XGBoost

	player	PredictedScore_XGB
0	Scottie Scheffler	-6.494157
2	Tommy Fleetwood	-3.883997
3	Russell Henley	-3.326754
1	Rory McIlroy	-2.245974
6	Patrick Cantlay	-1.698791
8	Sepp Straka	-1.576447
17	Harry Hall	-1.380459
4	J.J. Spaun	-1.242522
11	Xander Schauffele	-1.177787
201	Bryson DeChambeau	-1.011048



# Equipment Trend Analysis

Most Common Brands Across Entire Bag

brand	count
Titleist	511
TaylorMade	199
PING	191
Callaway	189
Golf Pride	127
Srixon	56
Odyssey	54
SuperStroke	50
PXG	30

Most Popular Driver Models

brand	model	count
PING	G430 LST	16
Titleist	GT2	13
Titleist	GT3	13
Titleist	TSR2	11
Titleist	TSR3	9
PING	G440 LST	8

Most Common Wedge Models

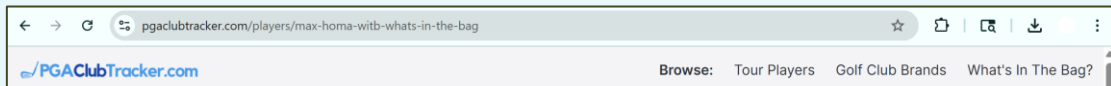
brand	model	count
Titleist	Vokey Design SM10	57
Titleist	Vokey Design WedgeWorks	28
Titleist	Vokey Design SM9	21
Titleist	Vokey Design WedgeWorks Proto	13
Callaway	Opus	12

Brand Dominance by Category

category	brand	count
Driver	Titleist	62
Driver	PING	39
Driver	Callaway	31
Driver	TaylorMade	24
Driver	Cobra	5
Driver	Srixon	4
Driver	PXG	4
Driver	Mizuno	3
Driver	LA Golf	1
Driver	Krank	1
Hybrid	Titleist	16
Hybrid	Callaway	14
Hybrid	TaylorMade	5
Hybrid	PING	5
Hybrid	PXG	3
Hybrid	Mizuno	1
Iron	Titleist	94
Iron	Callaway	50
Iron	Srixon	41
Iron	PING	39
Iron	TaylorMade	32
Iron	Mizuno	15

# Challenges

Linear regression?  
Random Forest?  
XGBoost?  
SVMs?



World Ranking	Player	Most Recent Bag
1	<a href="#">Scottie Scheffler</a>	May 2025
2	<a href="#">Rory McIlroy</a>	March 2025
3	<a href="#">Xander Schauffele</a>	January 2025
4	<a href="#">Tommy Fleetwood</a>	August 2025
5	<a href="#">Russell Henley</a>	March 2025
6	<a href="#">J.J. Spaun</a>	June 2025
7	<a href="#">Robert MacIntyre</a>	August 2025
8	<a href="#">Justin Thomas</a>	April 2025
10	<a href="#">Justin Rose</a>	January 2025

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Fetching player list page: https://www.pgacubtracker.com/players?page=1
Fetching player list page: https://www.pgacubtracker.com/players?page=2
Fetching player list page: https://www.pgacubtracker.com/players?page=3
Fetching player list page: https://www.pgacubtracker.com/players?page=4
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Fetching player list page: https://www.pgacubtracker.com/players?page=6
Fetching player list page: https://www.pgacubtracker.com/players?page=7
Fetching player list page: https://www.pgacubtracker.com/players?page=8
Stopping: got status 500 on page 8
Found 157 players
Fetching WITB for aaron-rai: https://www.pgacubtracker.com/players/aaron-rai
Fetching WITB for abraham-ancer: https://www.pgacubtracker.com/players/abraham-ancer
Fetching WITB for adam-long: https://www.pgacubtracker.com/players/adam-long
Fetching WITB for adam-scott: https://www.pgacubtracker.com/players/adam-scott
Fetching WITB for adam-svensson: https://www.pgacubtracker.com/players/adam-svensson
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