

Predicting Annual Earnings on the PGA Tour



Rob Zhang



Show

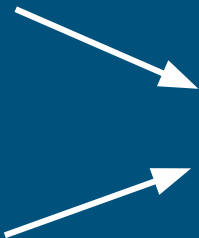


Dough



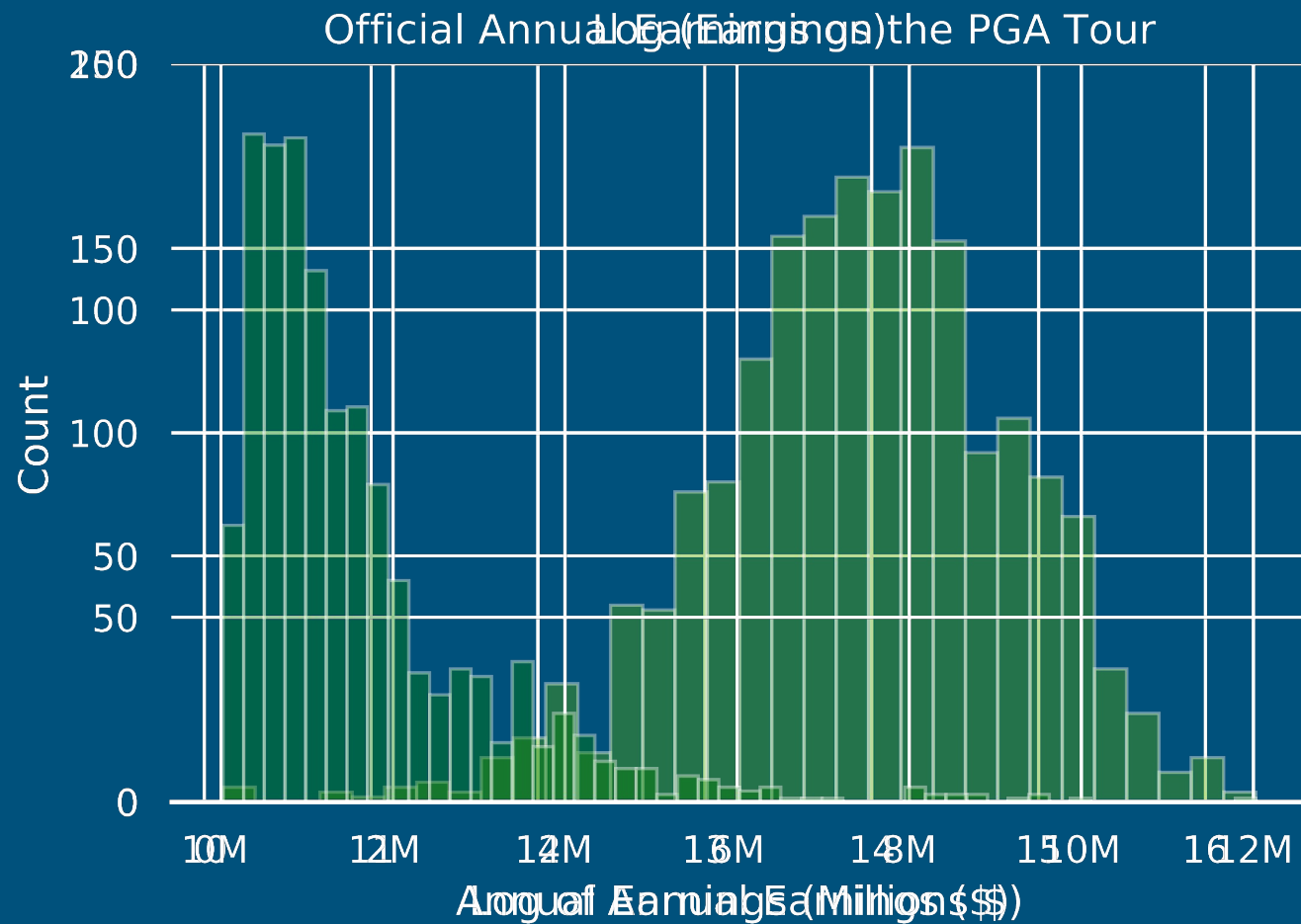
- Which part of a golfer's game matters the most?
- Do physical features of a golfer matter?
- Accurately predict PGA earnings with stats?





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Cleaned Data



Traditional

- Fairway Percentage
- Average Drive Distance
- Greens in Regulation
- Average Scrambling
- Average Putts

Strokes Gained

- SG Off-the-Tee
- SG Approach-the-Green
- SG Around-the-Green
- SG Putting

Model Results

R^2 : 0.765

rmse : ~ \$740k



	Model	Actual	Difference
2018	2.1	2.7	-0.6
2017	8.5	9.4	-0.9
2016	4.5	5.5	-1.0
2015	11.1	12.0	-0.9
2014	4.1	4.3	-0.2
2013	4.8	3.9	+1.0

(\$ Millions)

— Which
Stats
Actually
Matter?



Traditional

- Fairway Percentage
- Average Drive Distance
- Greens in Regulation
- Average Scrambling
- Average Putts

- Weight, Height, Age

Strokes Gained

- SG Off-the-Tee
- SG Approach-the-Green
- SG Around-the-Green
- SG Putting

Appendix

Off-the-Tee

Distance: 430 yards

Strokes-to-Hole Value: $4.05 - \text{Value: } 2.91 - 1$

Strokes Gained = +0.14

430

140

Around-the-Green

Distance = 15 yards

Value = $2.48 - 1.58 - 1$

Strokes Gained = -0.10

15

\$\$

Approach-the-Green

Distance = 140 yards

Strokes-to-Hole Value: $2.91 - 2.48 - 1$

Strokes Gained = -0.57

Putting

Distance = 9 feet

Value: $1.58 - 1$

Strokes Gained = 0.58



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Strokes-to-Hole Value: $4.05 - \text{Value: } 2.91 - 1$

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430

Around-the-Green

Strokes Gained = -0.10

15

\$\$

Approach-the-Green

Strokes Gained = -0.57

140

Putting

Strokes Gained = 0.58

Strokes Gained Total = $0.14 - 0.57 - 0.10 + 0.58 = 0.05$ = $4.05 - 4$



Questions?

