



HORSE RACING IN HONG KONG

By Carson Lloyd

Objective

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My goal is to predict the outcome of some of the biggest horse races in the world. The Hong Kong Jockey Club is world renowned and a big part of the culture in Hong Kong. The HKJC has two racetracks, Sha Tin and Happy Valley. They attract tons of citizens, tourists, and about 17.86 million USD per race, more than any other track in the world.

Data

The screenshot shows a web browser window with the URL <http://101.78.205.36/racing/information/english/Horse>SelectHorse.aspx>. The page title is "Racing Information (Local) - Horses". The top navigation bar includes links for "Entries", "Race Card", "Current Odds", "Trainers' Entries", "Jockeys' Rates", "Reference Info", "Statistics", "Results", "Report", "Jockeys & Trainers", "Horses", and "Fixtures". Below the navigation is a search bar for "Search Horse" with fields for "Horse Name" and "Brand Number" and a "Search" button. There are also search boxes for "Search Horse by Owner" and "Search Horse by Sire", both with "Owner" and "Sire" radio buttons and "Search" buttons. A "Horse Index" section features a grid of letters from A to Z. The main content area is titled "List By Trainer" and contains two tables: "Trainers In Service" and "Others".

List By Trainer

Trainers In Service

C W Chang	A S Cruz	D E Ferreira	C Fownes	R Gibson
D J Hall	L Ho	F C Lai	K W Lui	K L Man
A T Millard	J Moore	P O'Sullivan	C S Shum	J Sze
W Y So	K H Ting	Y S Tsui	D J Whyte	C H Yip
P F Yu	T P Yung			

Others

P Brandt	R Charlton	de Royer Dupre	C Fellowes	W J Haggas
K Hagibara	M Hashida	Y Hatakeyama	V Ikesa	J Lau
M Matsunaga	W P Mullins	A P O'Brien	H Otomashi	T Ozeki
Sir M R Stoute	Y Tomomichi	T Yasuda		

[Racing Information](#)
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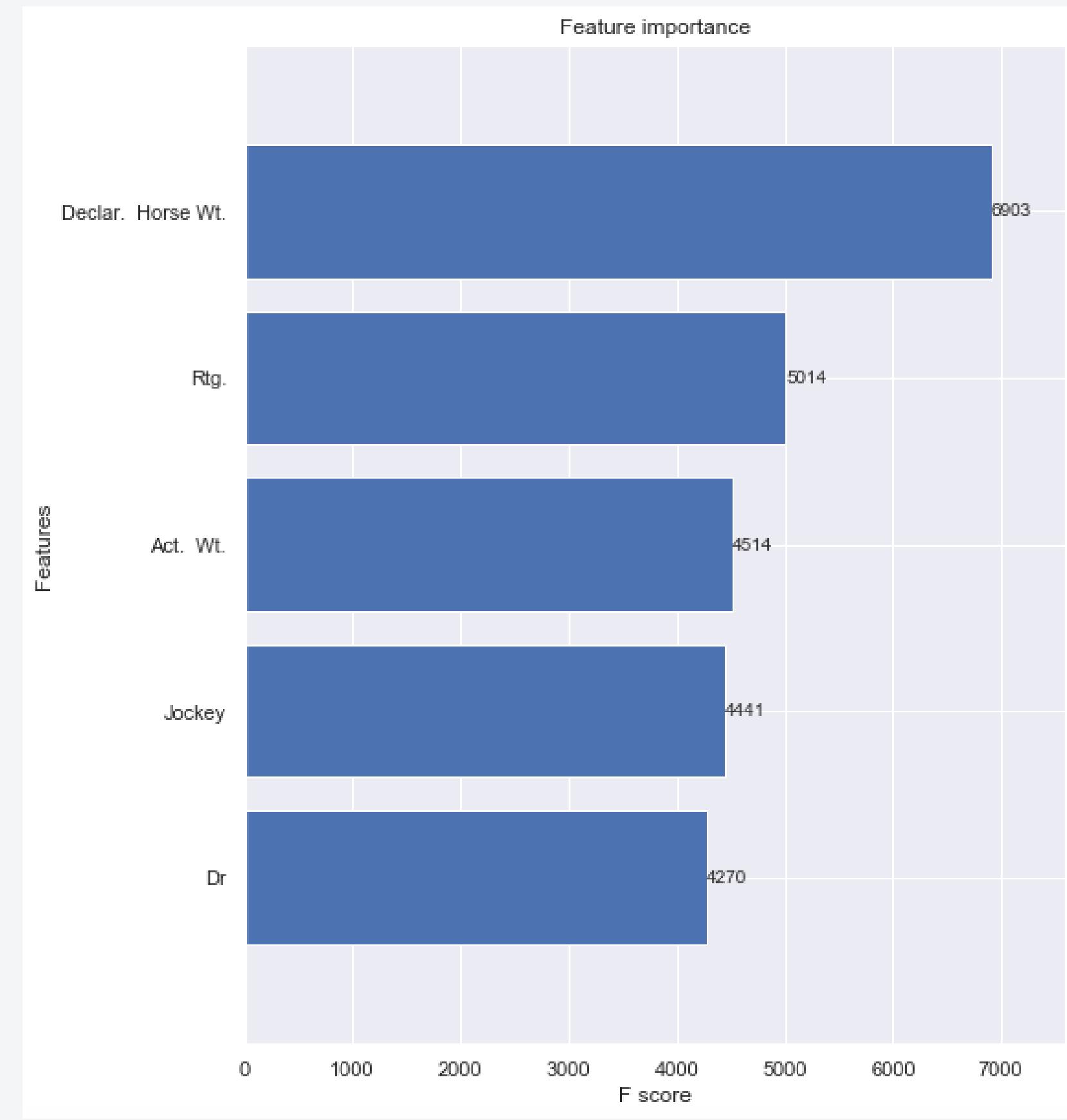
[Multimedia](#)

[Useful Info](#)

All of the current race horses information and race history is available on the HKJC website.

Insights

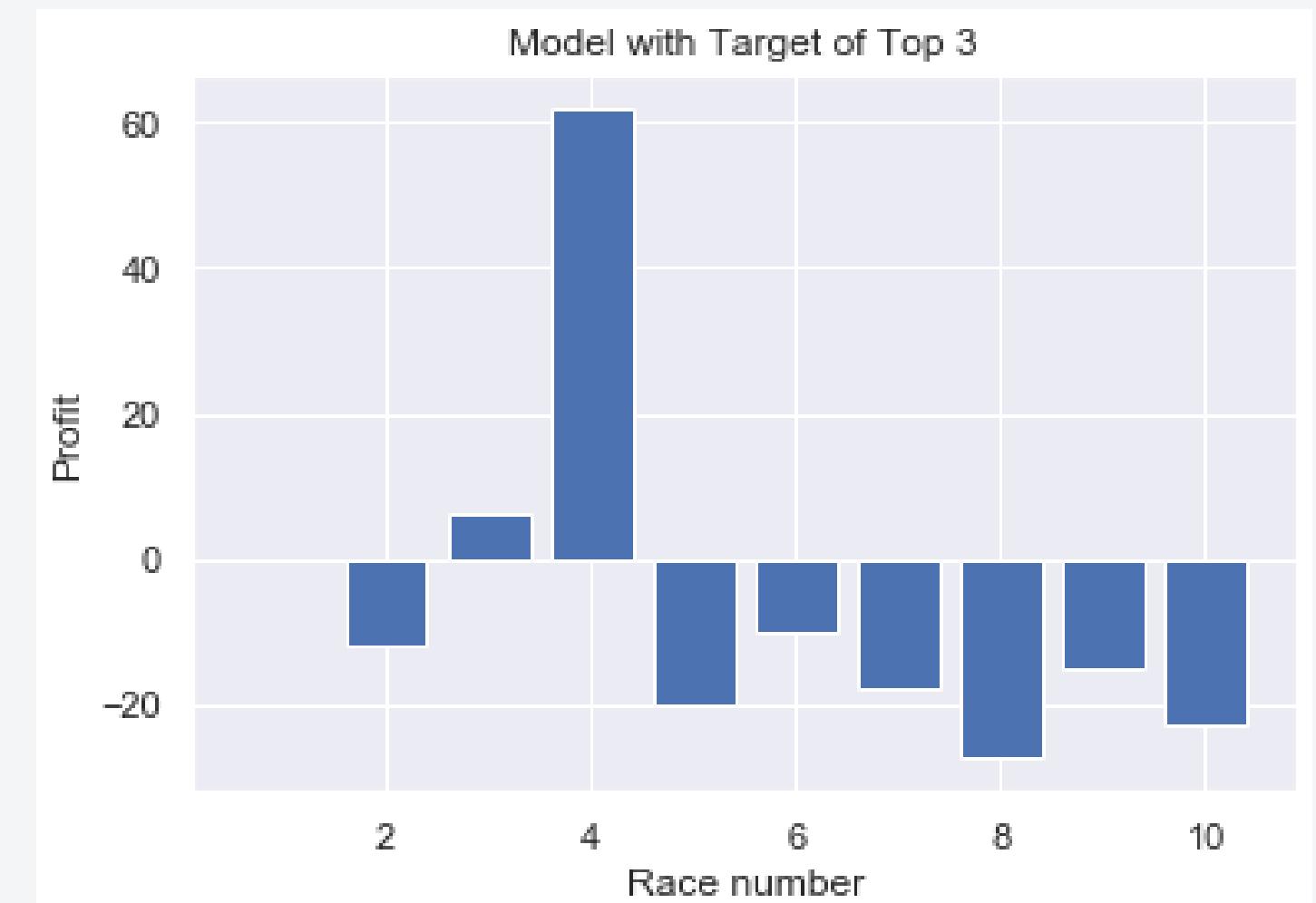
After training my model many times I found these features to be consistently the most important. The horse weight, current rating, jockey, and draw number.



Results



Total Profit: -\$11.50



Total Profit: -\$57.50

The model achieved an auc score of 74% The model is very good at predicting at the horse that is favorite to win, which is not profitable.

Moving Forward

- Feature Engineering
- Implement thresholds so the model will only say to bet when it is more confident
- Create a betting strategy, and try to place more exotic bets
- Collect more data (veterinary records, workout records, race descriptions, more races)
- Try other models

RACE 4 (402)

Class 4 - 1400M - (60-40)
SAU MAU PING HANDICAP
HK\$ 967,000

Going : GOOD
Course : TURF - "C+3" Course
Time : (13.60) (35.32) (58.97) (1:22.07)
Sectional Time : 13.60 21.72 23.65 23.10

Multi Angle Race Replay Pass Through Analysis Aerial Virtual Replay

Plc.	Horse No.	Horse	Jockey	Trainer	Actual Wt.	Declar. Wt.	Draw	LBW	Running Position	Finish Time	Win Odds
1	12	FANTASTIC SHOW(A207)	J Moreira	Y S Tsui	120	1089	8	-	11 9 9 1	1:22.07	2.5
2	4	ROMAN IMPERO(V371)	K H Chan	C H Yip	122	1170	12	2-1/2	2 2 1 2	1:22.45	46
3	3	KING'S RACE(C249)	M F Poon	K H Ting	130	1213	4	3-3/4	8 8 8 3	1:22.62	3.6
4	6	WINSTON'S LAD(T348)	C Y Ho	K W Lui	128	1071	9	5	3 3 4 4	1:22.86	13
5	5	XPONENTIAL(D049)	K Teetan	D J Whyte	132	1142	13	5	6 6 7 5	1:22.88	9.9
6	8	SPEED FAY FAY(D121)	M L Yeung	T P Yung	126	1279	7	5-1/4	10 13 12 6	1:22.89	264
7	1	COMFORT LIFE(B169)	Z Purton	F C Lor	133	1178	2	5-1/2	4 4 3 7	1:22.94	6.4
8	2	KING'S TROOPER(C130)	C Schofield	P F Yiu	133	1158	6	7	9 10 10 8	1:23.20	21
9	9	SPONTANEOUS(D106)	T Piccone	P O'Sullivan	126	1186	11	7-1/2	12 11 11 9	1:23.26	17
10	10	GENERAL CASTLEDALE(C350)	N Callan	D E Ferraris	124	1072	1	8-3/4	7 7 6 10	1:23.48	262
11	11	CHUNGHWA JINGSHEN(D148)	L Hewitson	L Ho	122	1119	10	9-1/4	13 14 14 11	1:23.53	176
12	14	TURF BRILLIANT(C456)	H W Lai	W Y So	114	1110	14	9-1/4	14 12 13 12	1:23.55	136
13	7	RED ZOFFANY(D211)	A Badel	K L Man	126	1066	3	10	1 1 2 13	1:23.68	118
14	13	DIAMOND LEGEND(V341)	H T Mo	A S Cruz	115	1180	5	12-1/2	5 5 5 14	1:24.08	16

Note: Special incidents index

Dividend		
Pool	Winning Combination	Dividend (HK\$)
WIN	12	25.50
PLACE	12	14.00
	4	88.00
	3	12.50
QUINELLA	4,12	621.50
QUINELLA PLACE	4,12	180.00
	3,12	24.50
	3,4	238.50
3 PICK 1 (COMPOSITE WIN)	A1	18.00
	A2	NOT WIN
	A3	NOT WIN
	Detail	
TIERCE	12,4,3	2,822.00
TRIO	3,4,12	561.00
FIRST 4	3,4,6,12	1,073.00
QUARTET	12,4,3,6	22,260.00
3RD DOUBLE	11/12	113.00
	11/4	627.00



Questions?