

Agenda -

What is Kaggle

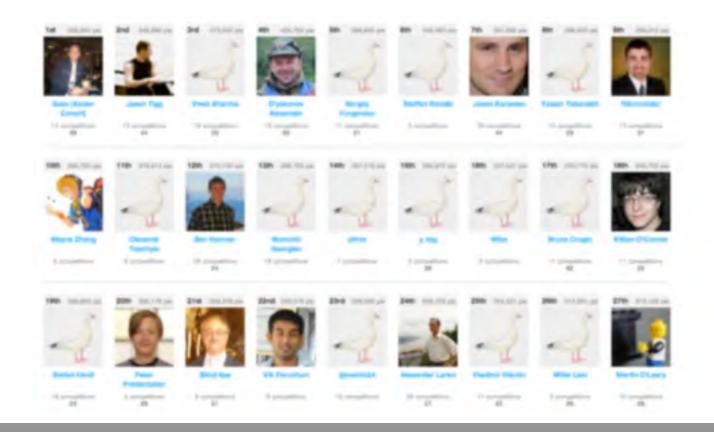
What are data science competitions

The Heritage Health Prize

Lessons Learned

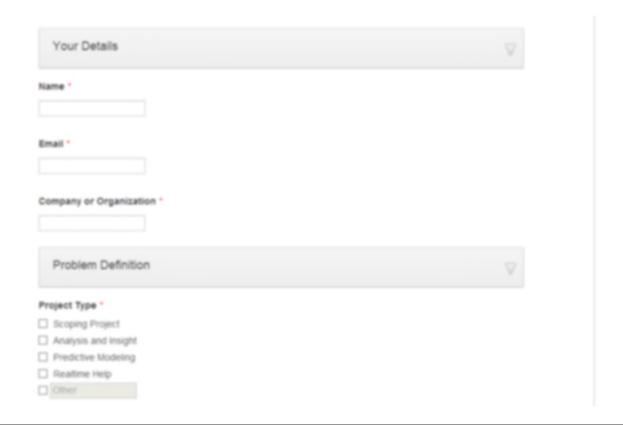


Kaggle Connect is a marketplace with the world's best, ranked





Kaggle Connect: submit your project and get matched with a data scientist





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Featured Competitions



Heritage Health Prize

Moretry patients who will be activitied to a hospital within the med year, using festinical claims data

Ends 12 months

\$3 million



Automoted Student Assessment Prize Phase One: Automated Essay Scoring

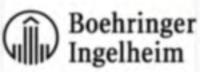
The Hewlett Foundation: Automated **Essay Scoring**

Dovelop an automated scoring algorithm for student-websis

Emile 39 days:

85 fears

\$100,000



Predicting a Biological Response

Priedict a histogical response of motorules from their crimical properties

Limin 3 mounting

Will be seen

5-241, MING



Benchmark Solutions

Benchmark Bond Trade Price Challenge

Develop models to accordely predict the trade price of a bond

Touris dat sharps

164 teams

\$37,500



CHALEARN Gesture Challenge

Develop a Genture Recognizer for Microsoft Kined (TM).

Circle 18 days

AT Month

\$18,600

Competition Mechanics

Trainin				
Age		Income	Default	
58	\$	95,824.00	TRUE	
73	5	20,708.00	FALSE	
59	\$	82,152.00	FALSE	
66	\$	25,334.00	FALSE	
39	\$	35,952.00	FALSE	
78	\$	51,754.00	FALSE	
76	\$	76,479.00	TRUE	
71	\$	96,614.00	TRUE	
22	\$	27,701.00	FALSE	
57	\$	35,841.00	FALSE	

Age	Income		Default
73	\$	53,445.00	
61	\$	36,679.00	
47	\$	90,422.00	
44	\$	79,040.00	
46	\$	67,104.00	
30	\$	69,992.00	
75	\$	78,139.00	
28	\$	66,058.00	
24	\$	75,240.00	
54	\$	89,503.00	

Competitions are judged on objective criteria



Predicting a Biological Response

\$20,000 S9 2 months

Information Data Forum Leaderboard

Public Leaderboard

in the money

This leaderboard is calculated on approximately 25% of the test data so the final standings may be different.

	Δ1d	Team Name	Log Loss	Entries	Last Submission UTC (Best Submission - Last)
1	new	Gxav*	0.42097	2	Fri, 23 Mar 2012 05:19:19 (-0.4h)
2	18	Inoddy *	0.42598	9	Pri, 23 Mar 2012 08:28:46
3	18	PlanetThanet*	0.42755	10	Pri, 23 Mar 2012 12:57:02
4	13	Student1	0.43039	8	Fri, 23 Mar 2012 19:47:46 (-41.5h)
5	13	Alec Stephenson	0.43264	1	Bat, 17 Mar 2012 14:47:28
6	13	YеТе	0.43333	7	Pri, 23 Mar 2012 03:37:49
7	125	come	0.43674	6	Fri, 23 Mar 2012 10:00:27

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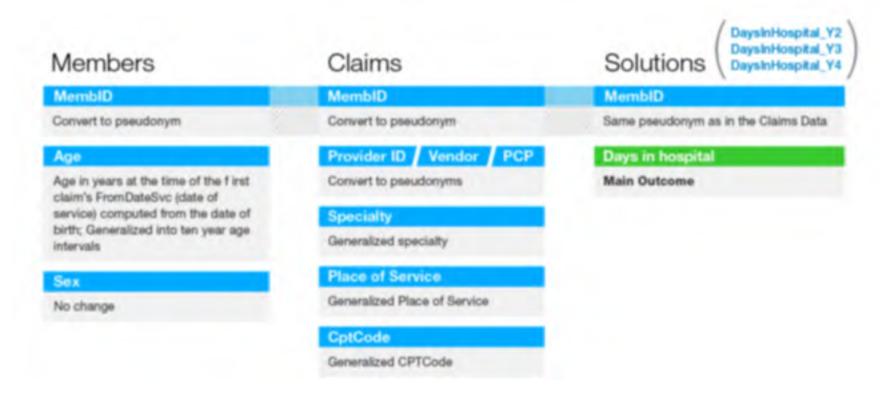


The world's largest ever data science competition





Competition Mechanics



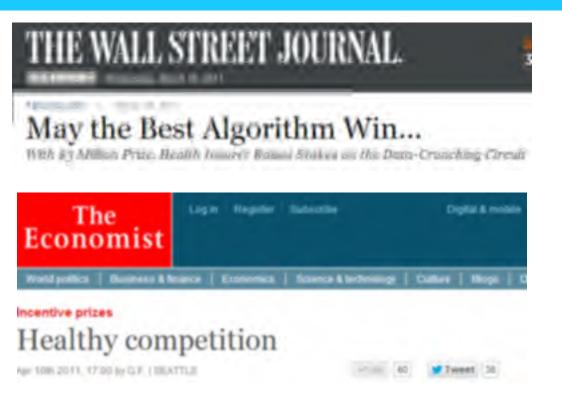


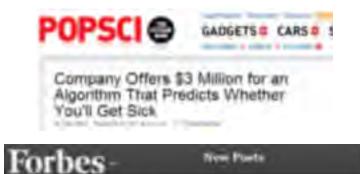
Competition Mechanics

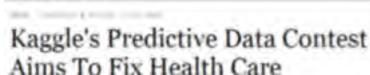




The prize launched on April 4th 2011 to lots of attention









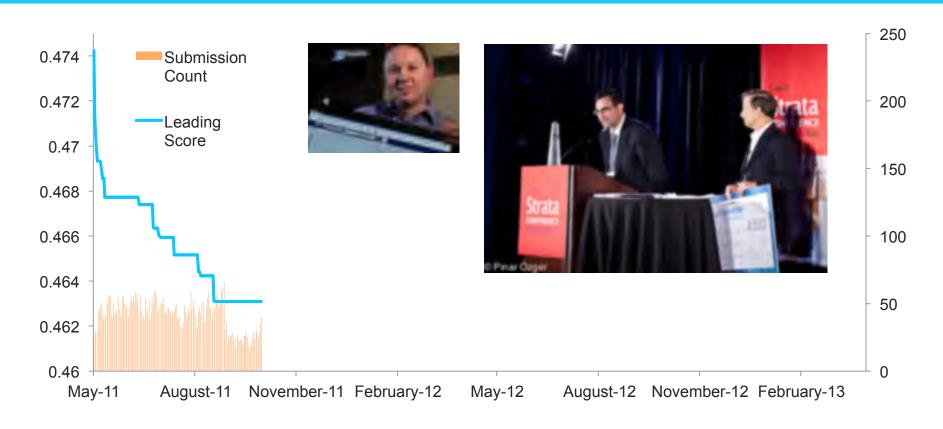


First milestone prize was awarded on October 4th 2011

Competition Timeline

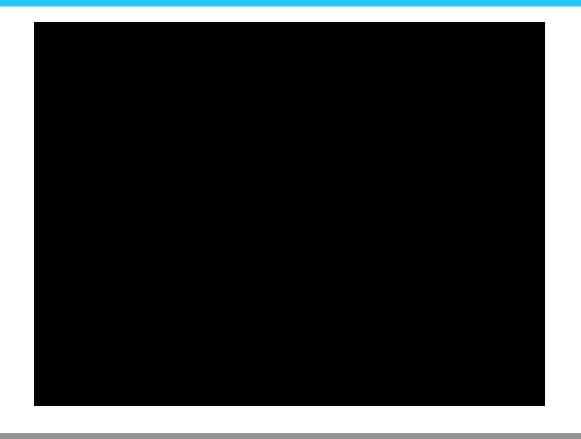


Winners include an IBM consultant and a hedge fund trader





Meet Phil, the IBMer who was part of the team that won the first milestone prize



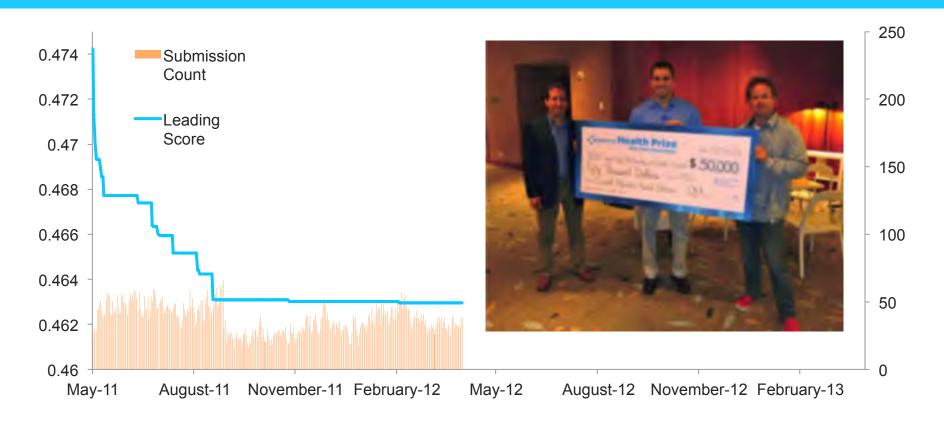


Second milestone prize was announced on April 4th 2012

Competition Timeline



Dave & Phil win milestone prize 2 as well





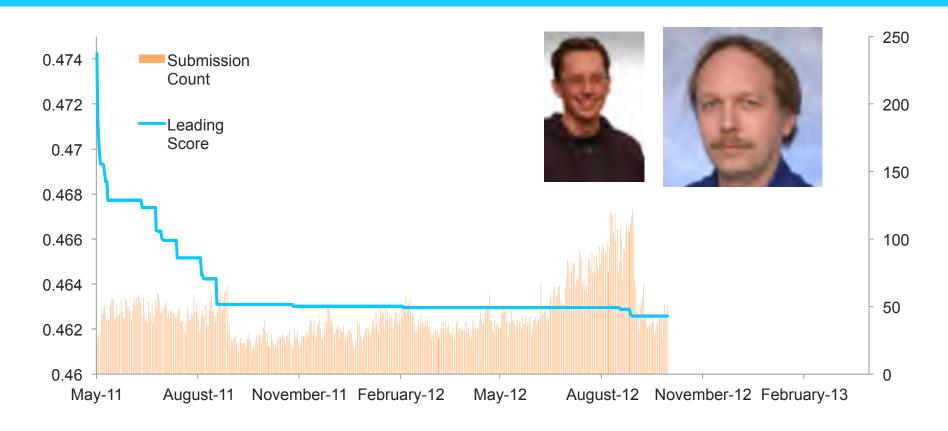
Third milestone prize was announced on October 4th 2012

Competition Timeline





Third awarded to a BI consultant and a software engineer



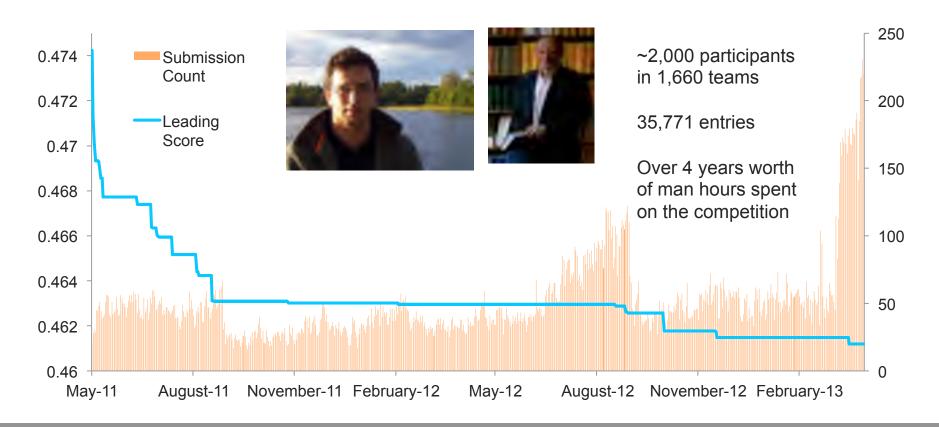


The competition closed on April 4th 2013

Competition Timeline



Final prize will be announced at the in DC on June 4th





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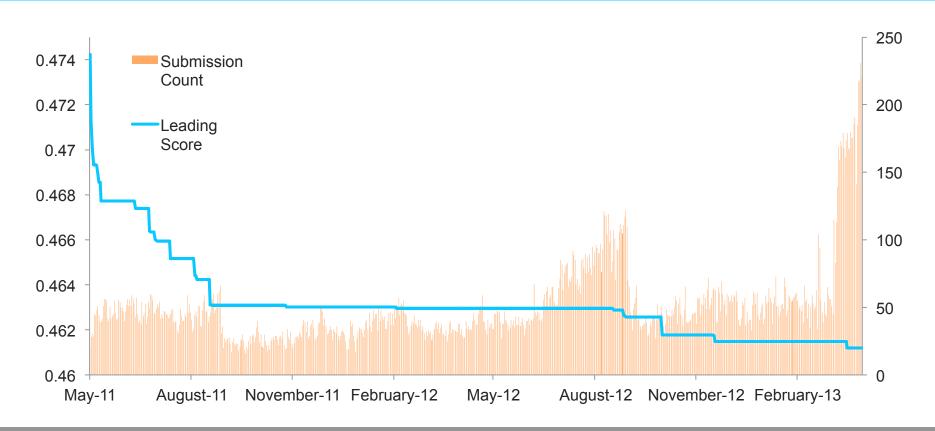


Top entries bunch at around the same level of predictive accuracy

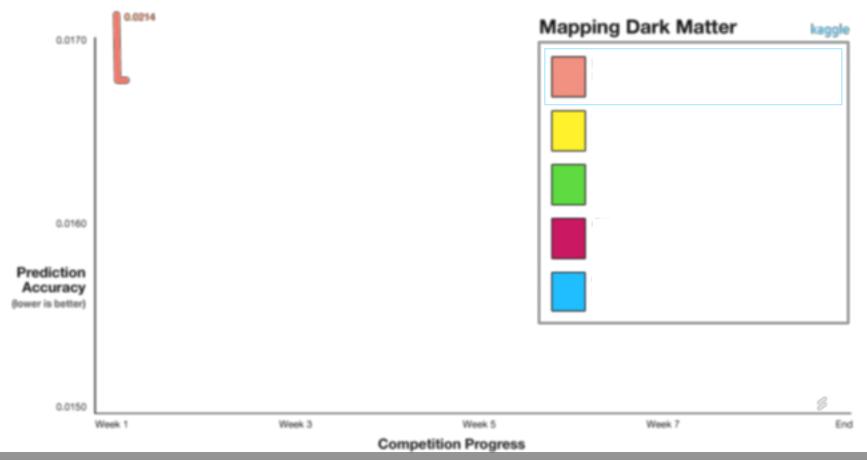
,	Δtw	Team Name * in the money	Score @ 1	Entries	Last Submission UTC (Seef - Leet Submission)
1		Almata (f	0.435583		Thu, 94 Apr 2013 04:27:43 (-93.2d)
2		EXI. Analytics :	0.443793	555	Thu, 04 Apr 2013 00:06:09 (-5.6d)
3		Essex Lake Group #	0.446678	299	Thu, 04 Apr 2013 05:02:32
4	-	POWERDOT 18	0.447651	671	Thu, 04 Apr 2013 05:12:00 (-137.3d)
5		Opera Solutions 3 ^L	0.449688	351	Thu, 04 Apr 2013 06:31:37
6		Dolphin III.	0.450403	555	Thu, 04 Apr 2013 06:37:08 (-6.24)
7	11	jack3 II-	0.451425	455	Thu, 04 Apr 2013 00:41:50
	41	Hopkins Biostat 1 ^[5]	0.451560	444	Thu, 04 Apr 2013 03:06:25 (-20h)
9	12	SouthPole	0.452426	162	Thu, 04 Apr 2013 04:57:48 (-13.3%)
10	139	NorthPole	0.452516	64	Thu, 04 Apr 2013 04:55:32 (-3.5d)



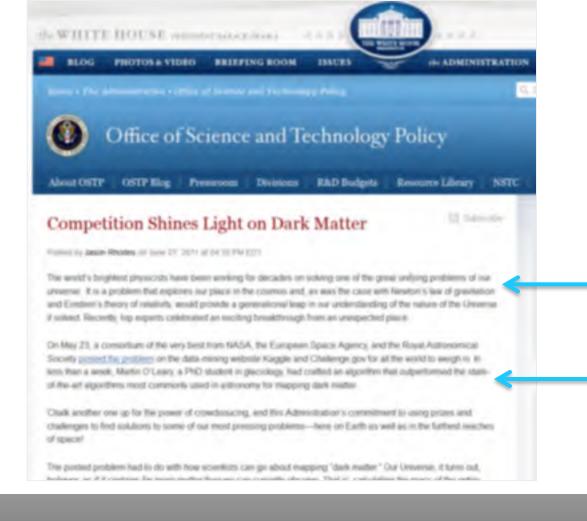
There's only so much information you can extract from a data set









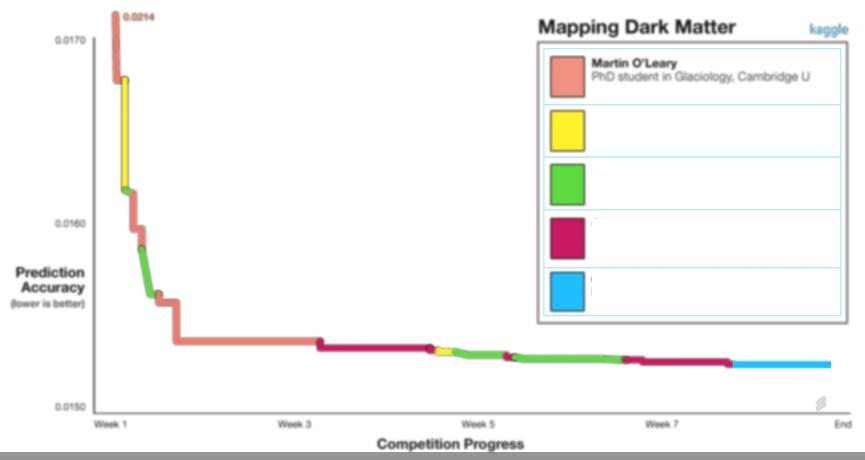


Kaggle's Dark Matter Competition on the White House blog

"The world's brightest physicists have been working for decades on solving one of the great unifying problems of our universe"

"In less than a week, Martin O'Leary, a PhD student in glaciology, outperformed the state-of-the-art algorithms"







Phil Brierley has performed well in a huge range of problems

	Heritage Health Prize	4th/1660
Alistate	Will I Stay or Will I Go? 4	6th/15
-	Global Energy Forecasting Competition 2012 - Load Forecasting	1et/105
ASAP Times	The Hewlett Foundation: Short Answer Sooring	14th/156
	Online Product Sales	9th/365
Otte	Predicting a Biological Response	142nd/703
ASAP Figure	The Hewlett Foundation: Automated Essay Scoring	2nd/156
<u> </u>	EMC Data Science Global Hackathon (Air Quality Prediction)	10th/114



Kaggle Connect provides the people – many of the world's best, ranked

