

ПЕРВАЯ ТРЕНИРОВКА ПО МАШИННОМУ ОБУЧЕНИЮ

ODS Community



OPEN DATA SCIENCE (ods.ai)

Сообщество специалистов в области машинного обучения

 Чат на 3000 человек (and growing!)

Конференции DataFest

Конференции Data&Science

Семинары и хакатоны

Тренировки по машинному обучению

habrahabr.ru/company/ods

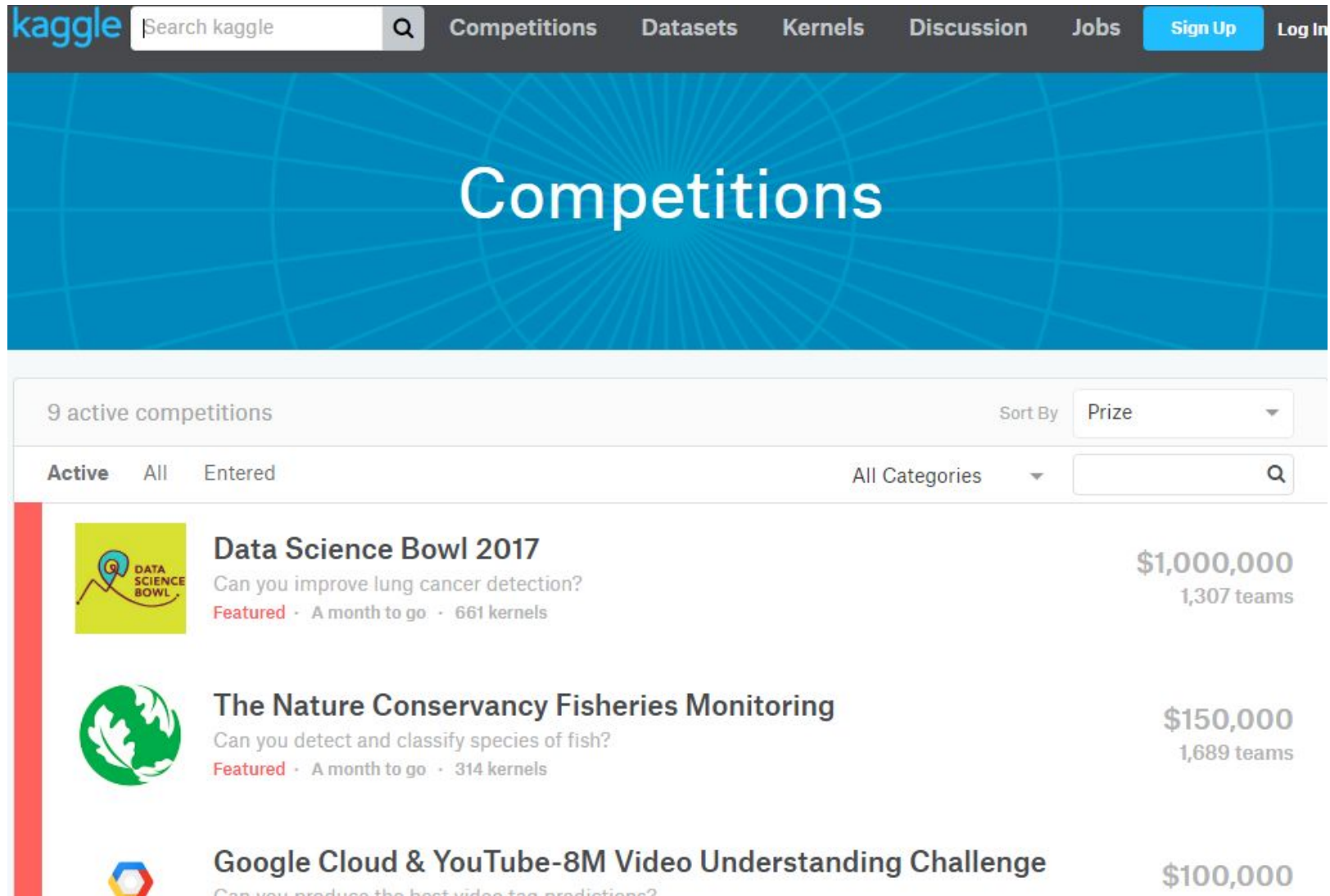
#mlcourse-open



Соревнования и конкурсы по машинному обучению

Что? Зачем? Почему?

kaggle.com






The screenshot shows the Kaggle website's 'Competitions' section. At the top is a navigation bar with the Kaggle logo, a search bar, and links to Competitions, Datasets, Kernels, Discussion, Jobs, Sign Up, and Log In. Below this is a large blue banner with the word 'Competitions' in white. Under the banner, there's a section for '9 active competitions' with a 'Sort By' dropdown set to 'Prize'. Below this are tabs for 'Active', 'All', and 'Entered', and a search bar for categories. A red vertical bar is on the left side of the competition list. The list contains three competitions: 'Data Science Bowl 2017' with a prize of \$1,000,000 and 1,307 teams, 'The Nature Conservancy Fisheries Monitoring' with a prize of \$150,000 and 1,689 teams, and 'Google Cloud & YouTube-8M Video Understanding Challenge' with a prize of \$100,000.

kaggle Search kaggle Q Competitions Datasets Kernels Discussion Jobs Sign Up Log In

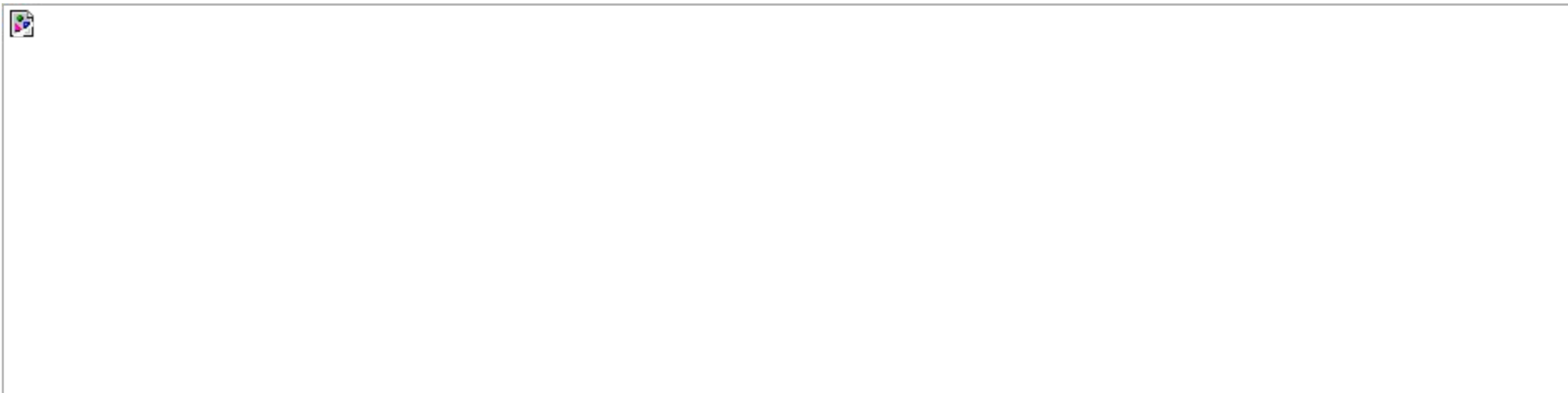
Competitions

9 active competitions Sort By Prize ▼

Active All Entered All Categories ▼ Q

	Data Science Bowl 2017 Can you improve lung cancer detection? Featured · A month to go · 661 kernels	\$1,000,000 1,307 teams
	The Nature Conservancy Fisheries Monitoring Can you detect and classify species of fish? Featured · A month to go · 314 kernels	\$150,000 1,689 teams
	Google Cloud & YouTube-8M Video Understanding Challenge Can you produce the best video tag predictions?	\$100,000

Соревнования по машинному обучению



Соревнования по машинному обучению

#	Δ1w	Team Name	Score ?	Entries	Last Submission UTC (Best – Last Submission)
1	—	Sergey Oreshkov	0.98500	12	Mon, 26 Dec 2016 12:46:05 (-0.1h)
2	—	Vadim Popov	0.98500	34	Thu, 29 Dec 2016 09:12:18 (-17h)
3	—	Artem Zaika	0.96500	10	Mon, 26 Dec 2016 10:37:19
4	—	Fred Navruzov	0.89500	18	Mon, 26 Dec 2016 11:41:36
5	—	mishacamry	0.87250	9	Sun, 22 Jan 2017 15:09:15 (-14.1d)
6	—	Alex	0.85250	27	Thu, 29 Dec 2016 12:06:33 (-2.1d)
7	—	Vladimir Axenov	0.84000	10	Sun, 25 Dec 2016 17:36:19
8	—	Андрей Карманов	0.83750	21	Mon, 12 Dec 2016 18:54:35
9	—	SDil	0.83750	2	Tue, 20 Dec 2016 06:07:34
10	—	SvetlanaBesaeva	0.83750	32	Mon, 23 Jan 2017 22:04:38 (-30.5d)
11	—	Sergey Lobanov	0.83500	13	Tue, 13 Dec 2016 04:17:41 (-35h)
12	—	Andrey Starostin	0.83500	7	Tue, 13 Dec 2016 12:05:08 (-22.7h)

Соревнования по машинному обучению

Плюсы конкурсов
Минусы конкурсов



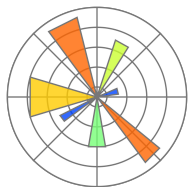
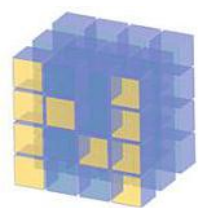
Prerequisites

Вам нужен Python - это общий язык с нами

- [codecademy](https://www.codecademy.com/)
- открытый курс от наших ->
https://github.com/Yorko/python_intro
- OK, Google -> “Intro to Python”



Джентльменский набор

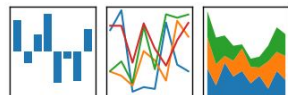


- Python3
- Jupyter notebook
- numpy
- scipy
- pandas
- sklearn
- statsmodels
- matplotlib



pandas

$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$



Машинное обучение и как ему учиться самостоятельно



Сложность	Ресурс
I'm too young to die	научпоп (Бостром - Искусственный Интеллект)
Hey, not too rough	coursera - курс от яндекса и ВШЭ
Hurt me plenty	coursera - специализация от яндекса и МФТИ
Ultra-violence	Hastie - The Elements of Statistical Learning
Nightmare	Murphy - Machine Learning A Probabilistic Perspective