

Intro

In this video, we analyzed the basic concept of the competition, talked about platforms and reasons for participation. In the next video, we will talk about the difference between real life and competitions.

Competitions' concepts

Data

Model

Submission

Evaluation

Leaderboard

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Example: data

Overview

Data

Kernels

Discussion

Leaderboard

Rules

Submit Predictions

Training Data

properties_2016.csv....

sample_submission.cs...

train_2016_v2.csv.zi...

zillow_data_dictiona...

zillow_data_dictionary.xlsx.zip

15.74 KB

Download

Data Introduction

In this competition, Zillow is asking you to predict the log-error between their Zestimate and the actual sale price, given all the features of a home. The log error is defined as

$$\text{logerror} = \log(\text{Zestimate}) - \log(\text{SalePrice})$$

and it is recorded in the transactions file **train.csv**. In this competition, you are going to predict the logerror for the months in Fall 2017. Since all the real estate transactions in the U.S. are publicly available, we will close the competition (no longer accepting submissions) before the evaluation period begins.

Train/Test split

- You are provided with a full list of real estate properties in three counties (Los Angeles, Orange and Ventura, California) data in 2016.
- The train data has all the transactions before October 15, 2016, plus some of the transactions after October 15, 2016.

Competitions' concepts

Data

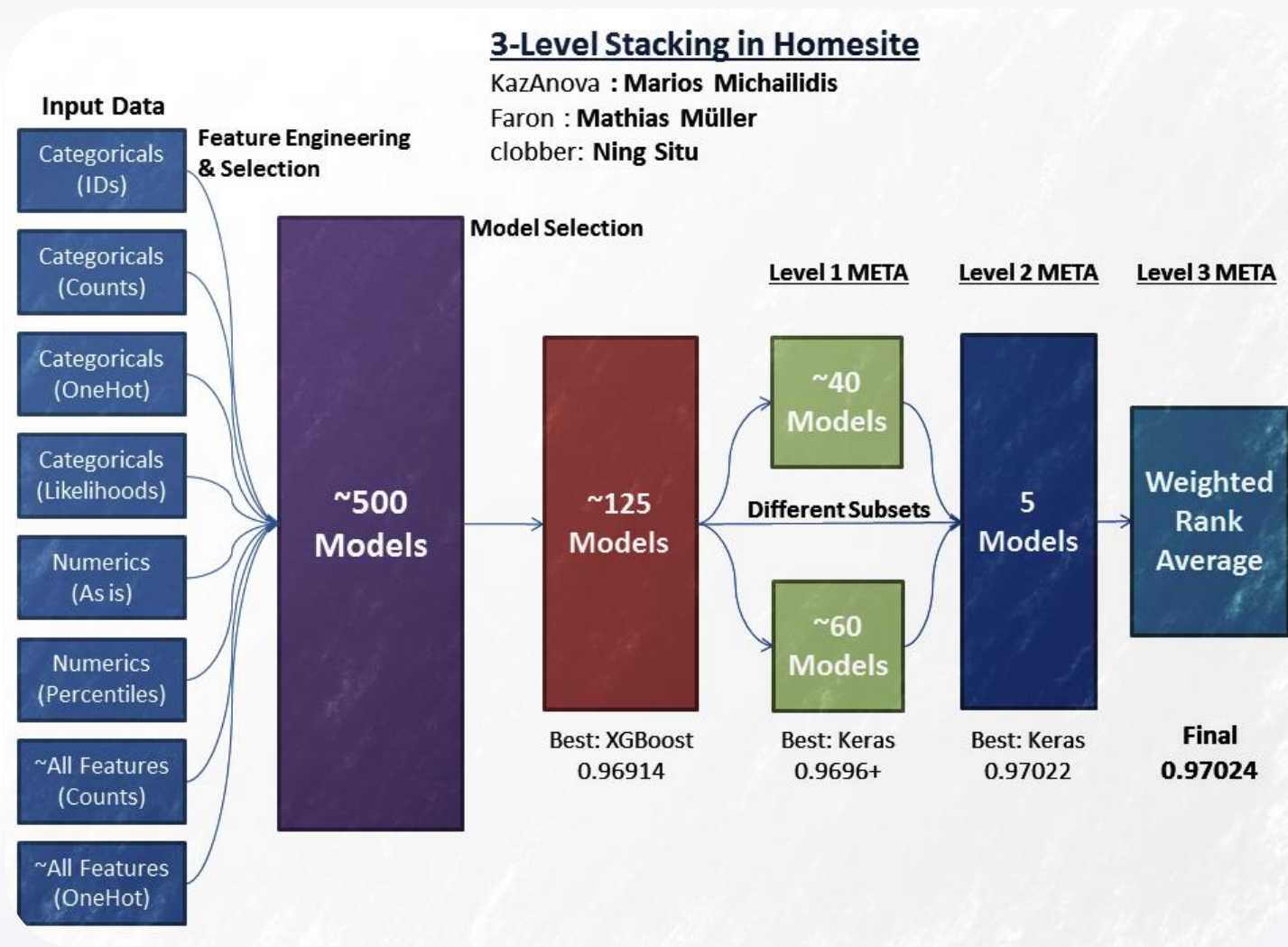
Model

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Model Example



<http://blog.kaggle.com/2016/04/08/homesite-quote-conversion-winners-write-up-1st-place-kazanova-faron-clobber>

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Submission

Usually you are asked to submit only predictions.

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Sample submission usually looks like:

```
ParcelId,201610,201611,201612,201710,201711,201712  
10754147,0.1234,1.2234,-1.3012,1.4012,0.8642-3.1412  
10759547,0,0,0,0,0,0  
etc.
```

Screenshot kaggle.com

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Evaluation function

You need to know how good is your model.

The quality of the model is defined by evaluation function:
(predictions, right answers) -> score

Evaluation function

Examples:

- Accuracy
- Logistic loss
- AUC
- RMSE
- MAE

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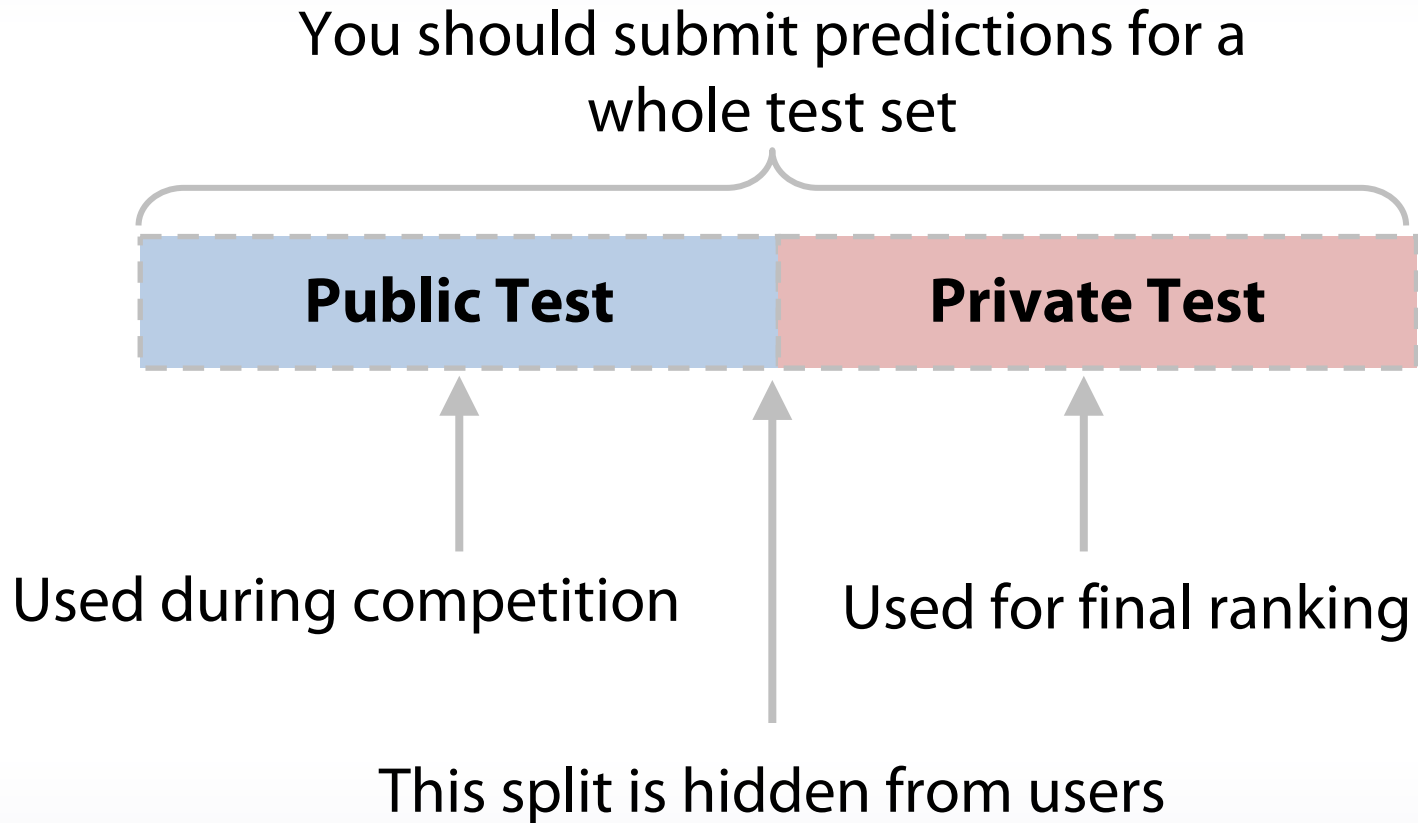
Evaluation

Leaderboard

Leaderboard

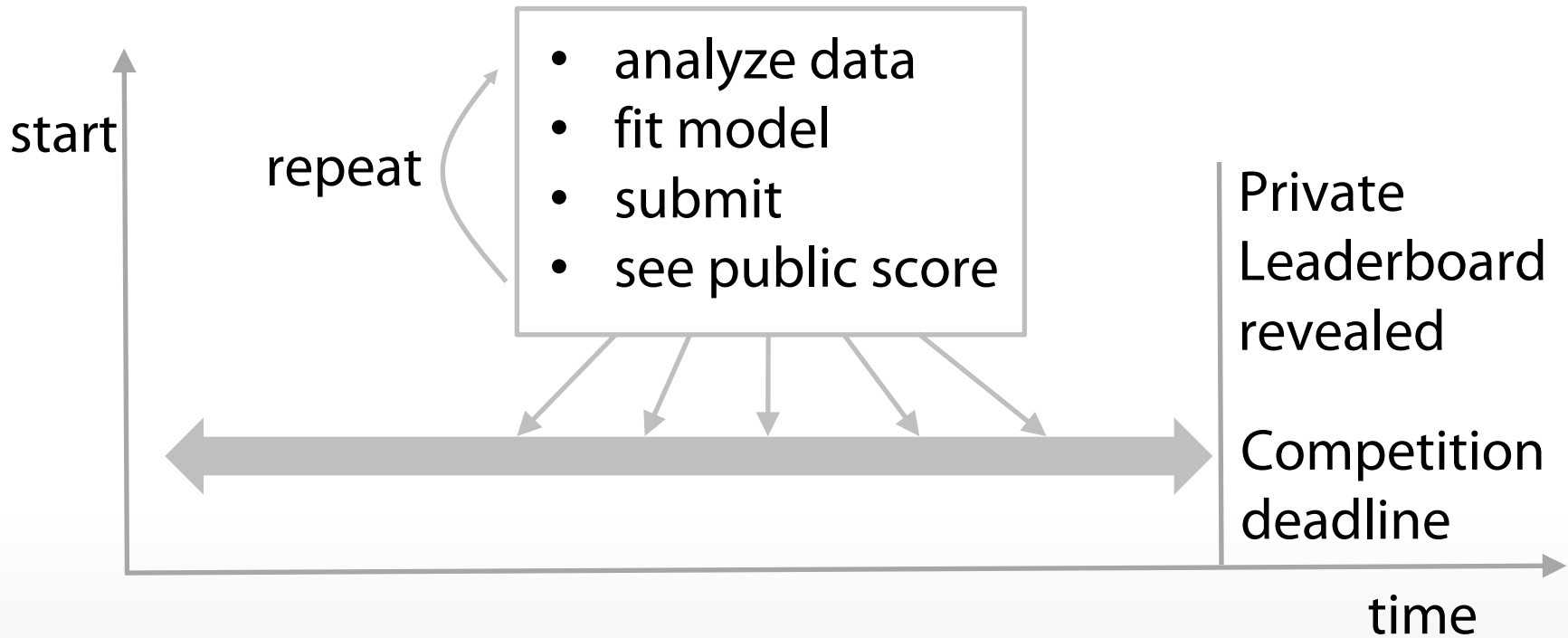
#	Δpub	Team Name	Score ?	Entries	Last
1	▲ 2	Chenglong Chen	0.72189	160	2y
2	▲ 4	Mikhail & Stanislav & Dmitry	0.71871	83	2y
3	▼ 2	Quartet	0.71861	279	2y
4	▲ 1	Shize & Shail & Phil	0.71802	252	2y
5	▲ 8	I love Phở Bò	0.71700	48	2y
6	▼ 2	Gzs_iceberg	0.71681	122	2y
7	▲ 1	YDM	0.71374	283	2y
8	▲ 10	A & A & G	0.71297	229	2y
9	▲ 7	ě	0.71265	96	2y
10	▲ 4	Alexander D'yakonov (PZAD, ...	0.71262	93	2y
11	▼ 9	SearchSearchSearch	0.71022	58	2y
12	▲ 8	woshialex	0.70889	52	2y
13	▲ 43	Alexander Ryzhkov (PZAD, Ru...	0.70777	64	2y
14	▼ 7	Jianmin Sun	0.70711	145	2y
15	▼ 6	I survived Glastonbury (just)	0.70705	119	2y

Public/Private Tests



Example of competition mechanics

Only public leaderboard is available at this stage



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Platforms:

- Kaggle
- DrivenData
- CrowdAnalitix
- CodaLab
- DataScienceChallenge.net
- Datascience.net
- Single-competition sites (like KDD, VizDooM)

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- Interesting non-trivial tasks and state-of-the-art approaches
- A way to get famous inside data science community
- A way to earn some money

Conclusion

- Main concepts:
 - Data
 - Model
 - Submission
 - Evaluation
 - Leaderboard
- Competition platforms
- Reasons for participating