Featured Prediction Competition

Restaurant Revenue Prediction

Predict annual restaurant sales based on objective measurements

$30,000
Prize Money

2,257 teams · 9 years ago

Overview Data Code Models Discussion Leaderboard Rules Team Submissions Late Subm

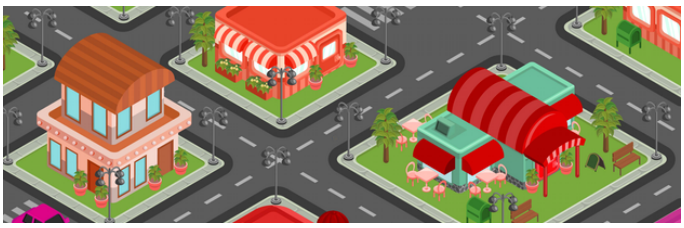
Overview

Start
Mar 23, 2015

Close
May 4, 2015

Merger & Entry

Description



With over 1,200 quick service restaurants across the globe, TFI is the company behind some of the world's most well-known brands: Burger King, Sbarro, Popeyes, Usta Donerci, and Arby's. They employ over 20,000 people in Europe and Asia and make significant daily investments in developing new restaurant sites.

Right now, deciding when and where to open new restaurants is largely a subjective process based on the personal judgement and experience of development teams. This subjective data is difficult to accurately extrapolate across geographies and cultures.

New restaurant sites take large investments of time and capital to get up and running. When the wrong location for a restaurant brand is chosen, the site closes within 18 months and operating losses are incurred.

Finding a mathematical model to increase the effectiveness of investments in new restaurant sites would allow TFI to invest more in other important business areas, like sustainability, innovation, and training for new employees. Using demographic, real estate, and commercial data, this competition challenges you to predict the annual restaurant sales of 100,000 regional locations.

TFI would love to hire an expert Kaggler like you to head up their growing data science team in Istanbul or Shanghai. You'd be tackling problems like the one featured in this competition on a global scale. See the job description here >>

Evaluation

Root Mean Squared Error (RMSE)

Submissions are scored on the root mean squared error. RMSE is very common and is a suitable general-purpose error metric. Compared to the Mean Absolute Error, RMSE punishes large errors:

$$\text{RMSE} = \sqrt{\frac{1}{n}\sum_{i=1}^{n}(y_i - \hat{y}_i)^2},$$

where y hat is the predicted value and y is the original value.

Submission File

For every restaurant in the dataset, submission files should contain two columns: Id and Prediction.

The file should contain a header and have the following format:

```
Id,Prediction
0,1.0
1,1.0
2,1.0
etc.
```

Prizes & Awards
$30,000
Awards Points & Medals

Participation
2,459 Competitors
2,257 Teams
32,745 Entries

Tags

Regression Tabular

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